Chemical Engineers

CHETHAN K. ACHARYA

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CAREER OBJECTIVES

To obtain a challenging position in a Chemical company utilizing my Research and Process Control skills supplemented by Fuel Processing and Industrial experience.

EDUCATION

Master of Science in Chemical Engineering, May 2003 The University of Alabama, Tuscaloosa, Alabama, USA

- GPA: 3.8
- Courses: Chemical Reaction Engineering, Advanced Thermodynamics, Computation in Chemical Engineering, Advanced Transport Phenomena, Advanced Statistics, Electron Microscopy, XPS, Current Trends in Analytical Chemistry.

Bachelor of Science in Chemical Engineering, May 1999

The University of Madras, India

- GPA: 3.85
- Core Courses: Chemical Reaction Engineering, Fluid Mechanics, Chemical Engineering Thermodynamics, Transport Phenomena, Heat and Mass Transfer Operations, Catalysis Technology and Process Control.

RESEARCH EXPERIENCE

Graduate Research Assistant (January 2001-Present)
Department of Chemical Engineering, The University of Alabama (Sponsored by Argonne National Laboratory)

- Design and build a laboratory scale Steam Reforming reactor for hydrogen (H₂)
 production for fuel cells. Gas Chromatography and Mass Spectrometer are used
 to analyze product gases.
- Perform Activity tests and Differential reactions on different catalysts supplied by Argonne National Lab. Optimize H₂ production from isobutane on platinum-ceriagadolinia catalyst. Calculate Activation energy of catalysts of different gadolinia composition. Develop a Kinetic model for steam reforming of isobutane on platinum-ceria-gadolinia catalyst.
- Assist in building a laboratory scale autothermal reforming reactor. Monitor Autothermal Reforming reaction of synthetic diesel to produce hydrogen for fuel cell applications.
- Characterize catalysts using techniques like TPR (Temperature Programmed Reduction), TPD (Temperature Programmed Desorption), TPO (Temperature Programmed Oxidation), B.E.T (Brunauer, Emmett and Teller) and XPS (X-ray Photoelectron Spectroscopy). Estimate platinum dispersion on ceria and alumina supports by Propylene Hydrogenation and Chemisorption. Prepare platinumalumina catalyst by Impregnation method.
- Involve in catalytic H₂ production from water.

Graduate Teaching Assistant (August-December 2001)

Undergraduate Chemical Reaction Engineering Course, The University of Alabama.

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INDUSTRIAL EXPERIENCE

Process Engineer (August 1999-December 2000)

TamilNadu Petroproducts Limited, Madras, India

- Process Engineer in Epichlorohydrin plant. Involved in production of epichlorohydrin from allyl chloride and chlorine.
- Operated distillation columns employing different principles like Steam distillation, Azeotropic distillation and Vacuum distillation. Also conversant with operation of Heat Exchangers, Reactors, Pumps, Compressors, etc.
- In-charge of Utilities like Boiler House, Incinerator, Effluent Treatment Plant and Lime Slaking Unit.
- Involved in many startup and shutdown activities.
- Conversant with operation of Distributed Control System (DCS).
- Received extensive training on Plant Safety.

Industrial training (Summer 1998)

Henkel SPIC India Limited, India

Acquired acquaintance with various unit operations involved in the manufacture of soaps and detergents.

ACADEMIC PROJECTS

- "TEM Analysis of Unmodified and Modified Al-Si Alloy", 2002 spring semester report for "Electron Microscopy" graduate course, The University of Alabama.
- "Estimation of Noble Metal Dispersion on Alumina and Ceria Supports by Chemisorption", 2002 fall semester report for "Current Trends in Analytical Chemistry" graduate course, The University of Alabama.
- "Feasibility Report on the Manufacture of Cypermethric Acid Chloride", Undergraduate Project, The University of Madras, India. The report included Material and Energy balance, equipment design of Reactor, Absorber and Condenser, etc.

PRESENTATIONS / PUBLICATIONS

- Chethan K. Acharya and Alan M. Lane, "Steam Reforming of Isobutane on Platinum-Gadolinia-Ceria Catalysts", 2002 AIChE Spring National Meeting, New Orleans, Louisiana, USA.
- Chethan K. Acharya and Alan M. Lane, "Kinetics of Steam Reforming of Isobutane on Platinum-Gadolinia-Ceria Catalysts", 2003 AIChE Spring National Meeting, New Orleans, Louisiana, USA.

COMPUTER SKILLS

Operating System - MSDOS, Windows 95, 98, NT and XP. Software - MS Office, ChemCAD, Matlab, Polymath. Languages - C, JAVA, FORTRAN, HTML.

PROFFESIONAL ORGANIZATIONS

American Institute of Chemical Engineers (AIChE).

HONORS / ACTIVITIES

Graduate Research Scholar, The University of Alabama (January 2001-May 2003). President of Association of Chemical Engineers, The University of Madras, India (Fall 1997).

STACY WAYNE BAILEY P.O. Box 5, Samantha, AL 35482 (205) 339 – 6432, aryiah13@hotmail.com

EDUCATION:

Bachelor of Science: Chemical Engineering: The University of Alabama, Tuscaloosa, Alabama

Foundation Coalition Curriculum: GPA: 3.432/4.000 Graduated: May, 2000

Passed Fundamentals of Engineering Exam (FE / EIT), April 1999

Graduate Coursework: Chemical Engineering: The University of Alabama, Tuscaloosa, Alabama

Polymer engineering, thermodynamics and reactor design classes with some polymer synthesis and testing for drug delivery

research. (January 2001 - June 2001)

TRAINING:

NEMO Stormwater Training (Tuscaloosa, Alabama)

Non-Point Source Pollution Education for Municipal Officials (August, 2002)

QCI Stormwater Certification (Birmingham, Alabama)

Qualified Credentialed Inspector state certification course (March, 2003)

Alabama Technology Transfer Center (Birmingham, Alabama)

Meeting Stormwater Pollution Requirements (April, 2003)

Phase 2 Stormwater Education Workshop I + II (Tuscaloosa, Alabama)

Alabama Associated General Contractors (June, 2003)
Watershed Management, Nonpoint Source Pollution and Stormwater Runoff Workshop (Fairhope, Alabama)

Weeks Bay National Estuarine Research Reserve (June, 2003)

Employee Training For Inspecting Best Management Practices (Tuscaloosa, Alabama)

Alabama Associated General Contractors (August, 2003)

COLLEGIATE DESIGN PROJECTS:

• Designed a compressed natural gas tank to replace gasoline fuel source for mail-delivery vehicle.

- Designed a water tower supported by a cantilever beam to withstand given seismic forces, have a set capacity, and maintain a certain water pressure at base of tower.
- Helped correct problem of insufficient cooling water to condenser of new distillation column.
- Case study and design of plant to produce 6 million gallons of 99.99 wt% anhydrous, fuel-grade ethanol per year by refining beer using extractive distillation with glycerin solvent.
- "Problem-shot", operated, and analyzed pneumatic transport, large-scale evaporative, distillative, hydrocyclonic, and heat transfer systems and machinery.

EXPERIENCE:

Engineering Assistant (EA2) (August 2002 - Present)

Tuscaloosa County Public Works, Tuscaloosa, Alabama

Handled phase 2 stormwater permitting, compliance and inspection of construction projects and material pits. Created and edited documents in electronic form as needed. Performed computer hardware and software troubleshooting and maintenance. Coordinated all training scheduling. Was primary contact for development of webpage.

Engineering GTA (August 1997 - May 2000)

The University of Alabama, Tuscaloosa, Alabama

Assisted with teaching of labs for chemical engineering undergraduates. Prepared polymer samples and tested and analyzed their physical properties, including glass transition temperatures using a differential scanning calorimeter (DSC), for drug delivery research.

Lab Monitor / Engineering Tutor (August 1997 - May 2000)

Was responsible for opening and closing computer labs, maintenance, monitored use of, and enforced rules to protect computers and multi-media equipment. Tutored students in calculus, physics, chemistry, general engineering studies, statics, and chemical engineering classes.

Draftsman/Design Engineer (May 1996- August 1996)

TAMKO Roofing Products, Tuscaloosa, AL

Designed floor plans, parts and plans for equpiment modification. Solved fundamental engineering problems, and performed preliminary testing and data analysis for new devices.

COMPUTER SKILLS:

MathCAD; ChemCAD^{IV}; AutoCAD 13; PPC MAPLE; Interactive Physics; Therminol Crane Companion; MS Access; MS Word; MS Excel; MS PowerPoint; MS Outlook; Windows (95, 98, NT, 2000); MS Office (95-98-2000, XP); Some DOS and Linux/Unix OSs, DeLorme 3D TopoQuads; MapInfo Viewer 7.0; Adobe Acrobat 5.0; Jamar TraxPro

HONORS/ACTIVITIES:

National Member, American Institute of Chemical Engineers (AlChE) Golden Key National Honor Society Intramural, Co-ed, and Church basketball leagues University Chorus

DEVIN M. BEVEL

Current Address: P.O. Box 864539 Tuscaloosa, Al 35486 (205) 347-4349 Devin.Bevel@ua.edu Permanent Address: 4017 Smithfield Forest Pl Pleasant Grove, Al 35127 (205) 744-7108

Objective

To obtain an entry-level position in the engineering field with an emphasis on quality control, design, and/or operation of various industrial processes and systems.

Education

Bachelor of Science: Chemical Engineering

Minor 1: General Business **Minor 2:** Real Estate

The University of Alabama, Tuscaloosa, Alabama

Expected Graduation: May 2003

CHE GPA: 2.8/4.0

Relevant Coursework

Chemical Reactor Design Unit Operations Lab Health and Safety Heat Transfer Operations Chemical Process Design I & II Engineering Graphics

Course Projects

Unit Operations Lab, Summer, 2002: Operated a distillation column, an evaporator, a heat exchanger, and a reactor. Each piece of equipment was operated and/or designed to yield a product of varying specifications. PowerPoint, Excel, and CHEMCAD were used extensively.

Chemical Process Design II, Fall, 2002: Performed an optimum design of a typical production volume chemical plant to produce Dimethyl - terephalate (DMT). Utilized principles developed in various Chemical engineering courses. Delegated responsibility between team members. The project was an overall economical success.

Experience

General Engineering Studies Teaching Assistant, August 2002 - Present

University of Alabama Department of Engineering, Tuscaloosa, Alabama Required to use Excel and several other computer programs, extensively. Assist the professor with grading, keeping attendance records, and preparing for lecture. Develop schemes to quantify questionnaire results. Tutor students on the subjects of chemistry, physics, and calculus.

Customer Representative, Spring 2001

UA Residential Life, Tuscaloosa, Alabama. Interacted with dorm residents. Handled emergency situations. Reported any major concerns.

Cashier, June 1998 - August 1998

Wal-Mart, Fairfield, Alabama
Dealt with customers concerns. Accounted for all money collected.
Assisted with store closing.

Computers Skills

CHEMCAD, AUTOCAD, Fortran, Fluent, Gambit, Polymath, Cap Cost, Power Point, Word, Excel, Windows, Internet

Activities

AICHE and NSBE member

References

Available upon request

Patrick L. Burton

burto011@bama.ua.edu

Current Address: 1625 Hargrove Rd E, Apt 203 Tuscaloosa, AL, 35405 (205) 554-1973 Permanent Address: 719 Williams Road Jasper, Alabama 35503 (205) 221-6421

Objective

To obtain an entry-level position in the chemical process industry with a future in

engineering management

Education

Bachelor of Science: Chemical Engineering The University of Alabama, Tuscaloosa, Alabama

Expected Graduation: May 2004

Minor: University of Alabama Computer Based Honors Program

Cumulative GPA: 3.22/4.00

Chemical Engineering GPA: 2.76/4.00

Coursework

Unit Operations Lab, Summer 2003:

Operated multistory evaporator unit, distillation tower, fluidized bed

separation column, and multipass heat exchanger system

University of Alabama Computer Based Honors Program, 2000-2002:

Design Projects:

Fall 2000, Spring 2002: Database Design

Fall 2001-Spring 2002: LabView Programming to Control CHE Lab

Magnetometer Equipment

Fall 2002-Spring 2003: Worked with UA Theatre to Design Barcode

Scanner/Ticket Database System

Process Dynamics and Controls, Fall 2003

Chemical Process Design, Fall 2003

Chemical Industry Health and Safety, Fall 2003

Heat Transfer Operations, Spring 2003 Chemical Reactor Design, Fall 2002 Separation Processes, Fall 2002 Fluid Flow Operations, Fall 2002

Chemical Engineering Thermodynamics, Spring 2002

Chemical Engineering Calculations, Fall 2001

Activities

American Institute of Chemical Engineers

& Honors

Gamma Beta Phi honor fraternity Phi Eta Sigma honor fraternity

National Society of Collegiate Scholars

John B. Thompson Alumni Honors Scholarship recipient

Robert C. Byrd Alabama Department of Education Scholarship recipient

William McCalla Engineering Scholarship recipient

Clarence W. Scott Chemical Engineering Scholarship recipient

Computer

C++, LabView, FORTRAN 90, ChemCad (V.5), AutoCAD, MatLab, Microsoft

Word, Excel, and Access

References Available upon request

JOSHUA WAYNE CARROLL

Current Address:

150 Rice Mine Road, Apt. B-105 Tuscaloosa, Alabama 35406 (205) 343-9004

Permanent Address:

20976 Highway 96 Kennedy, Alabama 35574 (205) 596-3759

email: carro009@bama.ua.edu

Education

Bachelor of Science: Chemical Engineering

The University of Alabama, Tuscaloosa, Alabama Expected Graduation: May 2004 Cumulative GPA: 4.0/4.0

Experience

Eastman Chemical Company, Kingsport, Tennessee - Intern

Summer 2003

Performed chemical engineering duties including plant experiments to optimize distillation column refining system, analysis of results from previous experiments, and presenting results to management. Also performed and observed plant operation duties including walk-downs, sampling, and communicating results from plant experiments to operators for better everyday plant operation.

- Southern Nuclear Operating Company, Birmingham, Alabama CO-OP August 2001-May 2003 Performed general engineering duties including fluid flow and air flow calculations, website design, nuclear fuel research, reading, interpreting and reproducing drawings, nuclear operations research for varied components, coordinated instrument calibration project (included planning and implementation of components tracking software), helped developed new long range project/budget tracking system, and other various area of analysis and research.
- Fayette County Board Of Education Baseball Coach at Berry High School January 2002-Present Normal coaching duties included: field maintenance and upkeep, improving community involvement, schedule development, time management, and tutoring of players in various academic subjects.
- W.G. Yates Construction Company, Philadelphia, Mississippi Summer 2000 On location at Weyerhaeuser Company in Millport, Alabama. Tasks included iron working, (i.e. welding, cutting, fitting, layout of designs) and concrete structure building, reading plans and following them to build various structures. Held supervising position over other employees.
- **Fayette County Board Of Education** Summer 1997-1999 Performed various duties at Fayette Area Career Technical School, including automobile repairs, basic automotive servicing, for faculty, staff, students, and visitors, and also performed building maintenance.

Computers

AutoCad, Adobe Acrobat, Matlab, Excel, Internet Explorer, Frontpage Editor, Powerpoint, Word, Access, Netscape Navigator, Proto-Flo (fluids program), Windows XP, WordPerfect, Lotus 123, IPASS software (instrumentation database), ChemCad (Chemical Eng Program), Polymath

Honors and Activities

Academic Honor Societies: Omega Chi Epsilon (Chemical Engineering) Tau Beta Pi (Engineering) Golden Key International Honor Society Phi Kappa Phi Honor Society National Society of Collegiate Scholars Gamma Beta Phi Alpha Lambda Delta Phi Eta Sigma

Chemical Engineering Student of the Year 2002 at The University of Alabama Sophomore Chemical Engineering Student of the Year Tau Beta Pi - outstanding junior and senior award American Institute of Chemical Engineers (AIChE) Graduated High School Valedictorian with Special Honors Boys State Representative

Southern Nuclear Leadership Association Organization for Developing Leadership

Special Skills

Certified Forklift Operator Automotive Servicing

References

Available Upon Request

KRISTEN S. CARROLL

Local Address 608 Jack Warner Pkwy #E4 Tuscaloosa, AL 35404 (205)-292-9642 kscarroll7@hotmail.com

Permanent Address 403 Santa Rosa Ave. Daphne, AL 36526 (251)-626-2886

Education

Bachelor of Science in Chemical Engineering

Business Certificate

The University of Alabama, Tuscaloosa, AL Expected Graduation: December 2003
Overall GPA: 3.6/4.0 Major GPA: 3.9/4.0

Business courses include Accounting, Marketing, Finance, Management, and Economics.

Work Experience

2002-Present Undergraduate Research Assistant, University of Alabama Chemical Engineering Department, Tuscaloosa, AL

Project: "Synthesis and Characterization of Temperature Sensitive Block Copolymers and Interpenetrating Networks."

Kimberly-Clark Corporation, Mobile Tissue Mill, Mobile, AL

Process Engineer Co-op January 2002-May 2002 Professional Towels Manufacturing Team Projects: UCTAD (Proprietary Technology) Tissue Machine Rebuild Start-up Team, Energy Balance and Cost Savings Analysis, Quality Analysis, Development of Process Centerlines Process Engineer Co-op May 2001-August 2001 Professional Tissue Manufacturing Team Projects: Tissue Machine Water Balance; Reduction of Fines and Stickies in Whitewater

Kimberly-Clark Corporation Neenah, WI

R&D Co-op August 2000-December 2000 Adult Care Research Competitive Intelligence Team Projects: Researched major competitors and created competitive products database for Adult Care team

Computer Skills

C++, Maple, ChemCAD, Polymath, Internet, Microsoft Office: Word, Excel, PowerPoint, Windows 95 – XP

Publications

Carroll, K.S., J.B. McKinney, D.T. Johnson and C.S. Brazel, "Development of Magnetothermal Responsive Systems for Tumor Treatment," Proceed. Intern. Symp. Control. Rel. Bioact. Mater., 30 (2003), submitted.

Carroll, K.S., J.B. McKinney, D.T. Johnson and <u>C.S. Brazel</u>, "Development of Magnetothermal Responsive Systems for Tumor Treatment," 30th International Symposium on Controlled Release of Bioactive Materials, Glasgow, Scotland, July 2003.

Honors and Activities

American Institute of Chemical Engineers (National and UA Chapter)
Omega Chi Epsilon, Chemical Engineering Honor Society
President's Cabinet Scholarship (4 year scholarship)
Clarence Scott Endowed Chemical Engineering Scholarship (1999 and 2001)
Rampacek Chemical Engineering Scholarship (2002)
Alpha Lambda Delta Honor Society
Phi Eta Sigma Honor Society
Dean's List (Fall 1999, Fall 2002, Spring 2003)

References: Available upon request

DEVIN CHAMNESS

445 Alta Vista Road Arab, AL 35016 (256) 572-1054 Cell (256) 586-8915 Home devinchamness@hotmail.com

OBJECTIVE

Obtain an entry-level engineering position to gain needed experience.

EDUCATION

Bachelors of Science in Chemical Engineering
Minor in General Business
The University of Alabama, Tuscaloosa, AL
3.00 cumulative GPA

RELEVANT COURSE WORK

Heat Transfer Thermodynamics of ChE Fluid Mechanics Polymer Study Management Statics Health and Safety
Organic Chemistry
Controls and Process Dynamics
Finance
Marketing
Circuits
Process Design
Reactor Design
Separations
Accounting
Economics

SPECIAL PROJECTS

- Start-up and steady-state run of distillation column. Maintained certain concentration of distillate for 1 hour.
- Start-up and steady-state run of double-effect evaporator. Maintained certain concentration of product for 2 hours in single and double effects.
- Modeled flow of fluids though certain length and diameter pipes.
- Collected data and tested performance of shell and tube heat exchanger.

WORK EXPERIENCE

Therapy Plus, Union Grove, AL. Physical Therapist Technician.

6/98 - 12/00

- Interacted and administered therapy to patients.
- Communicated with people from diverse cultures.
- Achieved greater understanding of how the human body reacts to surgery, injury, etc.

Arab Primary School, Arab, AL. Extended Day Worker.

2/98 - 5/99

- Interacted with kindergarten 2nd grade children.
- Assisted with homework and studies.
- In charge of 10 to 20 children for three hours after regular school hours.

Movie Gallery, Arab, AL. Customer Service Assistant.

9/97 - 2/98

- Handled banking transactions.
- Collected data and made decisions for seasonal advertising schemes.
- Assumed closing and opening responsibilities.

COMPUTER SKILLS

Operating Systems: Windows 95/98/2000/XP

Applications: Excel, Word, PowerPoint, AutoCad, PolyMath, ChemCad, Matlab, SimuLink, Unix, MathCad

Programming Languages: HTML, Fortran

REFERENCES

Available upon request.

FARRIS DEANNA CHAMPION

4120 Eleanor Street Northport, AL 35473 (205) 292-2049 fchampion@bellsouth.net

EDUCATION

Bachelor of Science in Chemical Engineering The University of Alabama, Tuscaloosa

Minor in Business

Expected Graduation: December 2004, Overall GPA: 3.1/4.0

Business courses include Accounting, Management, Microeconomics, Macroeconomics, and Legal

Studies

Calhoun Community College, Decatur, AL

Dates of Attendance: August 2002 - December 2002

Bevill State Community College, Fayette, AL Dates of Attendance: May 1999 – May 2001

EXPERIENCE

Process Engineering Cooperative Education Student

Solutia, Inc., Decatur, AL, Spring and Fall 2002

• Analyzed historical and present process data to improve future products

♦ Implemented process change to greatly reduce unplanned shutdowns and to highly benefit cost savings

 Developed daily engineering report to present essential process data and indicate any undesirable information

♦ Assisted mentor by reducing company spending through developing totally enclosed treatment facility as addition to process rather than shipping byproducts off site

 Designed process drawings for incoming employees to familiarize themselves with different areas of plant

Office Assistant

The University of Alabama, Math Department, Tuscaloosa, AL, Fall 2001

• Office assignments, interacted with peers, students, and faculty, ran various errands, and aided in resolving any conflicts that occurred

Receptionist

Bruce A. Perry, O.D., Fayette, AL, August 1999 - May 2001

• Office duties, assisted with patient concerns, scheduled appointments, assisted optician in the lab, and aided personnel by filing patient's insurance

COMPUTER SKILLS Highly experienced with Info Plus.21, Aspen Process Explorer, Aspen Process Graphics Editor, Visio, Pavilion, FORTRAN, Microsoft Word, Excel, PowerPoint, and the Internet.

STRENGTHS

Excellent communication, leadership, organizational, and teaming skills. Highly motivated, ambitious, and hard working. Easily adaptable and enjoy learning new skills.

ACTIVITIES/ HONORS Clarence W. and Martha T. Scott Scholar: Fall 2001 - Present

University of Alabama Honors Scholarship: Fall 2001

American Institute of Chemical Engineers

Society of Women Engineers Recruitment Committee

Emerging Leaders: Fall 2001 - Spring 2002

Student Government Association Teacher Evaluation Committee: Fall 2001

VOLUNTEER EXPERIENCE Julian Harris Elementary School Extended Day Program: Spring 2002

Russell Student Health Fair: Fall 2001

FOCUS for Senior Citizens Thanksgiving Luncheon: Fall 2001

REFERENCES

Available upon request

PRAVEEN K CHEEK

1108 14th Ave. Apt.321 Tuscaloosa, AL-35401

Home: (205) 752-3952 Email: <u>praveen1000@hotmail.com</u>

Cellular: (303) 949-1629

SUMMARY

Highly motivated professional with a solid academic background in chemical engineering and over three years of experience in research and development. A dynamic team player who works well with others at all levels of authority. Focuses on problem solving and analytical skills to accomplish established goals.

EXPERIENCE

Research Scientist

August 2001 - February 2002

Product Development Group, Orica USA Inc., CO.

- Applied catalysis for the development of new products involving the concept of composite explosives.
- Performed lab work for the development of new formulations to improve current technology for the global applications of emulsion explosives.
- Analyzed the products using DSC, SEM, Particle Analyzer, Rheometer/Viscometer etc.
- Prepared operating procedures for lab equipment

Graduate Research Assistant

August 1999 – Present

Department of Chemical Engineering, University of Alabama

- Designed and built a laboratory scale heterogeneous catalytic system for Autothermal Reforming of Diesel for H₂ production in Fuel Cell applications. Research focuses on catalyst aging, poisoning (sulfur and coke) and activity tests. Designed an adiabatic reactor to optimize the energy efficiency.
- Developed novel catalysts for the selective oxidation of carbon monoxide in a hydrogen-rich stream for Polymer Electrolyte Membrane (PEM) fuel cell applications. Synthesized Precious-metal catalysts by step-wise incipient wetness and coprecipitation methods. Examined catalysts with BET surface area, TPD/X/O, XRD, SEM, TEM and XPS analysis techniques. Measured activity, selectivity and stability of catalysts with laboratory reactor using GC and IR analysis. Designed series reactors to improve the performance.
- Simulation of the methane steam re-forming (MSR) process in a catalytic Pd-Membrane reactor.

Graduate Teaching Assistant

May 2001- June 2001

Unit Operations Lab, University of Alabama

- Instructing and assisting senior undergraduate students on Reaction and Mass Transfer experiments.
- Handling and distribution of software and tools used in experiments.

PUBLICATIONS & PRESENTATIONS

- Reaction and Surface Characterization Study of Co and Co/Pt Based Catalysts for the Selective Oxidation of CO in H2-Containing Streams, Chemical Engineering Journal, 4050 (2002) 1-8
- Catalytic Autothermal Reforming of heavy hydrocarbon fuels for auxiliary power units, accepted for publication by Journal of Power Sources, 2003
- Removal of Carbon Monoxide from Hydrogen-Rich Fuels by Selective Oxidation over Copper Supported Mixed Metal Oxides, accepted for publication by Catalysis Letters.
- Auto Thermal Reforming of Hydrocarbon Fuels: A Selective Review, submitted to Chemical Engineering Journal.
- Oxidative Steam Reforming of Heavy Hydrocarbons for Fuel Cells, American Chemical Society Spring National Meeting, New Orleans, USA, March 2003
- Preferential Oxidation of Carbon Monoxide in Reformate Streams, 2001 North American Catalysis Society meeting, Toronto, Canada, June 2001
- Alternate Catalysts for the Selective Oxidation of Carbon Monoxide in Presence of Excess Hydrogen, 2000 AICHE Annual meeting, Los Angeles, CA, November 2000.
- Computer Applications in Chemical Engineering, Chemosphere, India, May 1997.

EDUCATION

M.S. in Chemical Engineering, 2001 The University of Alabama, Tuscaloosa, Alabama, USA

Bachelors Degree in Chemical Engineering, 1999 Osmania University, Hyderabad (India)

TECHNICAL SKILLS

XPS, XRD, SEM, TEM, GC, MS, IR, BET, TPD, TPO, TPX, TGA, DSC, Rheometer, Particle Analyzer.

COMPUTER SKILLS

C Sharp (C#), C++, JAVA, PL/SQL, HTML, FORTRAN, PASCAL, UNIX, Windows, Visual Basic, MS Word, MS Excel, MS PowerPoint, MS Access, AutoCAD, ChemCAD, MathCAD, Matlab, Polymath.

AFFILIATIONS / CERTIFICATIONS

Affiliate member of American Institute of Chemical Engineers. Student member of American Chemical Society 40 Hour MSHA Training/Certification.

Basic Explosives Course Certificate from Orica University.

Project Management certification course from Kepner-Tregoe.

HONORS/ACTIVITIES

Graduate Scholarship, University of Alabama (1999-2001) Undergraduate: Government of India Merit Scholarship (1996-1998) Vice-President, Indian Student Association of Tuscaloosa (Feb 2000-Feb2001)

AMY CHRISLEY

amy.chrisley@ua.edu

Local Address:

632 23rd Street East, Apt 19D Tuscaloosa, AL 35401 (205) 750-8712 **Permanent Address:** 7709 Charlotte Drive Huntsville, AL 35802

(256) 881-8083

Huntsville, AL

OBJECTIVE

To obtain experience in the field of chemical engineering through a summer

internship

EDUCATION

Candidate for Bachelor of Science in Chemical Engineering

The University of Alabama Calhoun Community College

Tuscaloosa, AL Expected Graduation: May 2004

Expected Graduation: May 2004 Summer 1999/2000 GPA: 3.37/4.00 GPA: 4.00/4.00

EXPERIENCE July 1999/2000

Child Care Staff, Trinity Child Development Center

Huntsville, AL

Supervised and cared for the safety of children ages two and under

Responsible for feeding and changing infants

• Communicated with other Child Care Staff and parents

Managed and devoted time to all the childrenAdapted to the different needs of every child

• Learned to work with a large group of children

COMPUTER SKILLS Languages: C++

Operating Environments: Windows 9x/ME/NT/2000, Mac OS 8 & up Business Tools: Excel, Access, Word, PowerPoint, FrontPage, AutoCAD,

Internet

HONORS and ACTIVITIES

Dean's List: Spring 2000

President's List: Fall 1999, Fall 2000

Honor Societies: Alpha Lambda Delta, National Society of Collegiate

Scholars, Golden Key International Honour Society, Omega Chi Epsilon, and

Phi Eta Sigma

Position: Hall Representative of Somerville Hall during Fall 2000 and Spring

2001, and AICHE fundraiser chair during Fall 2002.

Volunteer: Counselor for a Children's Music Camp and Programming Judge

for the University of Alabama's Spring 2001 Computing Olympiad

Activities: Member of the Million Dollar Band Flag Corps and Rifle Line

RICHARD PATRICK CLEMONS

Permanent Address: 402 E. Parker Rd. Hartselle, AL 35640

Cell Phone: (256) 566-2159 Home Phone: (256) 773-9888 Email: PClem42@aol.com

Objective

Recent ChE graduate seeking entry-level engineering employment.

Education

Bachelor of Science: Chemical Engineering The University of Alabama, Tuscaloosa, Alabama

Graduated: May 16, 2003

GPA 3.44/4.0

Cumulative GPA 3.59/4.0

Wallace State Community College, Hanceville, Alabama

Attended: Fall 1999-Summer 2000

GPA 4.0/4.0

Course work included Calculus I-III and Chemistry I-II.

Chemical Engineering Unit Operations Lab

Summer 2002

The Unit Operations Lab entailed hands on experiments involving heat exchange, evaporation, distillation, heat of reaction, and fluid mechanics. All lab experiments were researched, executed, and presented through cooperative teamwork.

Experience

Willy T's, Northport, Alabama

Restaurant Cook, July 2002- April 2003

Worked food-line and cooked. Improved time-management skills, and contributed to

education expenses.

Coffey Construction, Hartselle, Alabama

Framer, Summer 2001

Laid foundations and framed houses. Developed building and team working skills.

C&S Foodland, Hartselle, Alabama

Cashier and Stocker, April 1999- July 2000

Worked full-time as cashier and stocker, while attending school. Developed people

skills through dealing with customers. Assisted in store opening and closing.

Computer Skills

Microsoft Office (Excel, Word, PowerPoint), Microsoft Internet Explorer 5.0,

Netscape Navigator, ChemCAD, FORTRAN, Matlab, AutoCAD, Capcost, Polymath

Honors

Dean's List-University of Alabama

2001 Presidential Student Service Award (130 hours of service)

Omega Chi Epsilon Chemical Engineering Society

3M Chemical Engineering Scholarship-- University of Alabama

Clarence Scott Chemical Engineering Scholarship President's List-Wallace State Community College

Wallace State Academic Scholarship Phi Theta Kappa Honor Society

GPA 4.11/4.0 (Advanced Placement Credit) - Hartselle High School

Activities

Youth/Worship Leader- First United Methodist Church, Hartselle

AICHE member Salt Mine Bible Study

Kids Klub – Mentor for inner city children Intramural Sports (basketball, soccer, football)

References

Available upon request

SCOTT DANIEL CLOUSE

Current Address: #3 Hackberry Circle

Tuscaloosa, AL 35401 (205) 275-5183

Permanent Address:

3207 Pineville Ct. Jasper, AL 35503 (205) 221-5620

ScottClouse@msn.com

Objective

To obtain an entry level position as a process engineer.

Education

Bachelor of Science: Chemical Engineering

General Business Minor

The University of Alabama, Tuscaloosa, AL Expected date of Graduation: May 2004

Major GPA: 3.51/4.0 Cumulative GPA: 3.45/4.0

Summer Interim Chemical Engineering Lab (5/13/3-6/14/3)

The University of Alabama: Gained hands-on experience with various operations which included a full scale distillation column, evaporator, and the construction and operation of a heat exchanger. Prepared numerous proposals as well technical reports for each operation with an

assigned team.

Bevill State Community College (08/99-05/01), Jasper, AL

Core Curriculum taken. No degree earned.

Work Experience

Golf Course Attendant: (08/02-05/03)

The University of Alabama Harry Pritchett Golf Course Tuscaloosa, AL Responsibilities included: handled money, helped customers, assisted with closing as well as had a part in decision making for some activities

the golf course held.

Computer Skills

Microsoft Word, Excel, PowerPoint, Windows 98-XP, Fortran, MatLab,

ChemCad, AutoCad, Internet Explorer

Honors/Activities

Inducted into Phi Theta Kappa Honor Society

Dean's List- Fall 1999, Spring 2000, Spring 2001, Spring 2003

Presidents List - Fall 2000

Clarence B. Scott University of Alabama Chemical Engineering

Scholarship

University of Alabama Math Scholarship Alabama Institute of Chemical Engineers

References

Available Upon Request

Julie Dawson

PERMANENT ADDRESS 1506 County Road 40 West Prattville, AL 36067 (334) 365-4787 Dawso012@bama.ua.edu JulieD56@aol.com CURRENT ADDRESS 1105 Skyland Blvd. E #91 Tuscaloosa, AL 35405 (205) 887-1252

OBJECTIVE

To work as a chemical engineer in either a manufacturing or project engineering position, or a chemical sales position.

EDUCATION

The University of Alabama

Chemical Engineering, Graduating Dec. 2003 GPA 3.20/4.00 Chemical Engineering GPA 3.86/4.00

Tuscaloosa, AL

CHEMICAL ENGINEERING EXPERIENCE

The Dow Chemical Company

Project Engineer Alternating Term Co-op

Freeport, TX

August 2000- December 2000

- Redesigned part of the sump system to make it more environmentally efficient
- Continual research on furnaces to make them more efficient
- Researched and solved problems with fouling molecular sieve dryer

The Dow Chemical Company

Midland, MI

Research Engineer Alternating Term Co-op

May 2001 – August 2001

- · Researched particle sizes for drug loading to make drugs more absorbent in body
- Loaded particles with drug and tested for absorption

The Dow Chemical Company

Plaquemine, LA

Manufacturing Engineer Alternating Term Co-op

January 2002 – August 2002

- Working with emissions testing to meet environmental requirements
- Redesigning RCRA tank for operations ease
- Removing iron from product stream to make it meet a more stringent customer specification
- Shutdown manager for THROX system
- Main contact for planning vessel inspections for 2002 and 2003 plant outages

AWARDS AND SCHOLARSHIPS

- College of Engineering Scholarship Fall 1999 Spring 2000
- Clarence and Martha Scott Scholarship Fall 1999 Fall 2003
- Meredith Bean Memorial Scholarship Fall 1999 Spring 2000
- Autauga County Alumni Association Scholarship Fall 1999 Spring 2000
- University Cabinet Scholarship 8 semesters
- Capstone Summer Honors Scholarship 8 semesters

ACTIVITIES (University of Alabama)

Fall 1999 – present Spring 2000 - Fall 2000 Fall 1999 Theta Tau Professional Engineering Fraternity

- Fundraising Chair
- Pledge Class Treasurer

Fall 2001 – present Spring 2000 – present American Institute of Chemical EngineersPhi Sigma Pi Professional Honor Fraternity

Fall 1999 - Spring 2001 •

University Honors Program

Fall 1999 - Spring 2000 •

Circle K Service Organization

ADAM DAYAN

1020 Indian Hills Dr. Tuscaloosa Alabama, 35406 (205) 391-0079 dayan002@bama.ua.edu

OBJECTIVE

To obtain an entry-level position in the manufacturing industry.

EDUCATION

Bachelor of Science: Chemical Engineering The University of Alabama, Tuscaloosa, Alabama

Expected Graduation: December 2004

Cumulative GPA: 3.6

English Language Institute, January 1999

- Completed Level-5 with Certificate of Proficiency

Aloney Isaac High School, Israel

High School Diploma, November 1994

GPA: 80/100

EXPERIENCE The University of Alabama Critical Languages, Tuscaloosa, Alabama

Hebrew Instructor, (August 2000-May 2001)

- grade papers
- discuss class assignments
- develop exams
- provide written and oral instructions to students

University of Alabama Hillel, Tuscaloosa, Alabama

- Board Member, 2001-2002

University of Alabama, Chemistry Department, Tuscaloosa, Alabama

Undergraduate Research

-intergrated X-Ray Analysis

Olympia Hotel, Tel-Aviv, Israel

Administrative Assistant, Summer 1998

- -provide room service for customers
- -assisted customers with luggage
- -delivered mail
- -performed office duties

Tefen Plastic Factory, Israel

- -technician Worker, fall 1998
- -supervised machinery
- supervised raw materials supplies

Israeli Defense Forces, Israel

-First Sergeant, 1994-1997

COMPUTER SKILLS

-Word, Power Point, Excel, Internet, Windows.

ACTIVITIES/

-The National Society of Collegiate Scholars (NSCS)

HONORS - Alpha Lambda Delta, Freshman National Honor Society

-Awarded Arts & Science Outstanding Sophomore April 2001

REFERENCES -available upon request

ALISON B. DUNAGAN

alibama@juno.com 6929A Tiffany Lane Chattanooga, TN 37412 (423) 894-6831

Education

Bachelor of Science: Chemical Engineering, May 2002 Environmental Engineering Certificate

The University of Alabama, Tuscaloosa, AL

Cumulative GPA: 3.95/4.0, ChE GPA: 3.94/4.0

Summa cum laude graduate

Passed the Fundamentals of Engineering Exam, April 2002

Relevant Coursework:

Transport Phenomena Chemical Process Design I Chemical Process Design II

Polymer Materials Engineering

Health and Safety in the Chemical Industry Environmental Engineering Science Water and Wastewater Engineering

Hazardous Waste Management

Process Dynamics and Controls

Chemical Reactor Design

Chemical Engineering Thermodynamics Chemical Engineering Calculations

Fluid Flow Operations
Separation Processes
Heat Transfer Operations

Basic Chemical Engineering Lab

Experience

Engineering Technician, Tom Joiner and Associates Inc., Northport, AL. July 2001 to April 2002. Assisted in completing reports to be submitted to clients and ADEM. Compiled data in Excel and analyzed using graphs. Aided in oil and gas section of company by working with maps to locate wells and completing well permits.

Research Position, Clarkson University, Potsdam, NY. Summer 2000.

Researched environmental engineering issues: a study of the effect of ultraviolet light on the photo-dissociation of complex cyanides. Wrote a research paper and presented a poster at campus-wide symposium. Published in quarterly report to company.

Rec Center Employee and Daycare Worker, Gardendale First Baptist Church, Gardendale, AL. Summer 1997, 1998 and 1999. Worked at a church's recreational facility. Dealt with members. Assisted in closing. Helped with daycare children of all ages. Answered and directed phone calls.

Computers

Microsoft Office (Word, Excel, PowerPoint, Outlook), FORTRAN, Matlab, MathCAD, QuickBooks, ChemCAD

Projects

Fluids Transport
Dynamics of Stirred Tank Reactors
Evaporator Column
Batch Distillation Column

Design, Set-up, and Test of Heat Exchanger

Septic Tank System Design Aniline Production Plant Design

Leadership/Activities/Honors

Alabama Crew, President (1999-2000),
Secretary (Spring 1999)

American Institute of Chemical Engineers,
Historian, U of A chapter (2001-2002)

Foundation Coalition

Fellowship of Christian Athletes
Society of Women Engineers
U of A Presidential Scholarship recipient

BE & K Engineering Fund Scholarship recipient

JGG Frost / Vulcan Chemical Engineering
Scholarship recipient

Who's Who Among Students in American
Universities and Colleges, 2001-2002
Tau Beta Pi Engineering Honor Society
Omega Chi Epsilon Chemical Engineering
Honor Society
Golden Key National Honor Society
President's List
Dean's List
Phi Eta Sigma Honor Society
Alpha Lambda Delta Honor Society
Gamma Beta Phi Honor Society
Phi Kappa Phi Honor Society

References Available upon request

Eboni A. Faux

School Address: 904 Calwell Road Baltimore, MD 21250 443/857-1453 efaux1@gl.umbc.edu

Permanent Address: 4060 Tarpon Lane Woodbridge, VA 22193 703/680-9399 morena1024@hotmail.com

Objective:

To obtain summer and/or winter internship position in chemical engineering field involving data analysis, research and development, quality control/assurance and/or operations/production.

Education:

B.S. in Chemical Engineering

Expected May 2005

University of Maryland, Baltimore County

Environmental Engineering

University of Miami, FL (Fall 1995-Fall 2001)

Completed Coursework:

- Introduction to Engineering, Chemical Engineering Analysis, Introduction to Materials, Chemical Process Thermodynamics
- Introduction to Chemistry I and II, Physical Chemistry, Organic Chemistry Lab I
- Calculus I and II, Multivariable Calculus, Ordinary Differential Equations
- Technical Writing

Current Coursework:

- Transport I: Fluids
- Organic Chemistry I, Advanced Chemistry Lab I

Student Work Experience:

Student Staff, University Operations, University of Maryland Baltimore County

September 2001-present

- Edit lesson plans for supervisors
- Assist in assembly of concert stages, conference rooms, audio/video equipment
- Administer assistance around University Center and Commons where needed

Assistant, Facilities Planning & Construction, University of Miami

July 2000-August 2001

- Logged documents, correspondences onto Expedition
- Monitored, copied incoming faxes and mail
- Administered assistance to Facilities Planning staff where needed

Assistant, Office of Media and External Relations, University of Miami

January-May 2000

- Allocated daily newspaper clipping regarding the University
- Relieved phones for receptionists, administrative assistants
- Administered assistance to University Relations staff where needed

Work Study, Otto G. Richter Library - Periodicals Department, University of Miami

August 1995-November 1997

- Returned bound, current periodicals and reference material
- Obtained requested periodicals from Brockway Storage (bound periodicals printed before
- Displayed new periodicals daily
- Completed payroll forms for student assistants of Periodicals Department

Programming Experience:

BASIC (1994), Pascal (1995), C Programming (1997), AutoCAD 14 (1999), AutoCAD 2000 (2001)

Computer Experience:

- Internet Explorer & Netscape Navigator
- Software: Expedition 6.4 (2000), Expedition 7.0 (2001)
- Microsoft Windows MS Office: Word, Excel, PowerPoint
- Miscellaneous: Data Entry

Work History:

Expeditor/Prep Cook, T.G.I. Friday's, Coral Gables, Florida

March-September 1999

- Evaluated quality of food prior to service
- Prepared sauces and other foods
- Maintained clean, safe environment for co-workers

Server & Quality Assurance (Expeditor), Bennigan's, Kendall, Florida

August-December 1998

- Assessed quality of food prior to service
- Sustained clean, safe environment for guests, co-workers

Concessions & Box Office, AMC Theatres - Potomac Mills Mall, Woodbridge, Virginia

May-August 1998

- Vended food, tickets, gift certificates to movie patrons
- Provided efficient service to movie patrons
- Organized all food necessary
- Maintained clean, safe environment in front and back of concession stand

Hostess & Server, Bennigan's, Springfield, Virginia

June 1996-July 1997

- Welcomed, seated guests
- Maintained clean, safe environment for guests, co-workers

Affiliations & Activities:

- Engineering Council of Majors
 - Secretary (Fall 2002-Spring 2003)
 - ♦ Vice President (Fall 2003)
- Society of Women Engineers (Fall 2001-present) -- Vice-President (Fall 2002-Spring 2003)
- University of Miami Rugby Football Club (1998)
- Miss University of Miami Pageant Finalist (1997)
- Tau Beta Sigma, National Honorary Sorority (initiated Fall 1996/Spring 1997)
 - Public Relations Chairperson (1997)
 - ♦ Historian (1998-1999)
- University of Miami's Band of the Hour
 - ♦ Hurricanette Dance Line (1996-2001) -- Certificates of Recognition and Participation
 - ♦ Uniform Crew Volunteer (1997-2001)

CHRISTOPHER BRENT FETNER

fetne002@bama.ua.edu

Current Address: University of Alabama Chemical Engineering P.O.Box 870203 Tuscaloosa, Alabama 35487 (205) 887-2722 Permanent Address: 1814 Lanier Street SW Decatur, Alabama 35603 (256) 351-7909

OBJECTIVE

To obtain an entry level chemical engineering position with a focus on process business support and a future in engineering management.

EDUCATION

Bachelor of Science: Chemical Engineering Minor: General Business

The University of Alabama, Tuscaloosa, Alabama Expected Graduation: December 2003

Cumulative GPA: 3.205/4.0 Professional GPA: 3.447/4.0

Relevant Course Work: Summer Lab consisting of operation of Distillation column, Evaporator, Filter Press, and Heat Exchanger.

EXPERIENCE

Engineering Co-Op, May 2003 - August 2003

Kimberly Clark Corporation, Infant Care Business Support, Neenah, Wisconsin Coordinated inter-departmental product testing. Assisted in submission of multiple Consumer Home Tests. Coordinated purchasing of all outsourced product. Constructed an Anthropometric Database. Wrote two Technical Letters, contributed to a Technical Report, and presented all findings in a final oral presentation to department and management.

Engineering Co-Op, January 2002 – May 2002

Kimberly Clark Corporation, Feminine Care Research, Neenah, Wisconsin
Constructed experimental product deformation testing apparatus. Designed testing procedure for future patent application. Designed future product construction material. Wrote Technical Letter and presented all findings in final oral presentation to department and management.

Engineering Co-Op, August 2000 - August 2001

Ciba Specialty Chemicals, Automation Engineering Assistant, McIntosh, Alabama
Constructed production unit status reports including performance history and real time mass balance. Created problem-solving program with history based troubleshooting solutions. Participated in process hazard management evaluation team.

Engineering Co-Op, January 2000 – May 2000

Ciba Specialty Chemicals, Material Applications Testing Lab, McIntosh, Alabama. Conducted chemical performance testing on manufactured chemicals. Trained replacement coop.

COMPUTER SKILLS

Languages- Fortran, Visual Basic

Applications- LabView, Microsoft Excel, Microsoft Word, Microsoft PowerPoint, Microsoft Access, Microsoft Outlook, PI Data Retrieval Systems

Operating Systems- Microsoft 98, Microsoft 2000, Microsoft Millennium, Microsoft XP, Macintosh

AWARDS AND ACHIEVEMENTS

American Institute of Chemical Engineers (AICHE) President Elect, Engineering Executive Council AICHE
Representative, AICHE Peer Mentor, Million Dollar Band, UA Women's Basketball Pep Band, Circle K, Eastwood
Middle School Key Club Volunteer, Boys and Girls Club After-School Volunteer, 3M Scholarship, Alabama Tire
Dealers Association Scholarship, Million Dollar Band Scholarship

REFERENCES

Available upon request.

Benjamin Daniel Gibson (205) 674-3358 LevelEye18@aol.com

601 Lamberth Drive Adamsville, AL 35005-1808

Education

University of Alabama, Tuscaloosa, Alabama

Bachelor of Science: Chemical Engineering

Minor, General Business

Graduated (cum laude): December 2001

3.7 GPA (overall)

University of Alabama at Birmingham (Aug 1995 - Aug 1997)

Core Curriculum Coursework, no degree obtained

Experience

Qore Property Sciences (Birmingham, AL) April 2002 to present

Work in the geotechnical soils lab, performing a number of tests to determine the properties of various soils for commercial and residential construction purposes.

Shaw Industries (Dalton, GA), 3 Rotations from Fall 1999 - Spring 2001

COP student. Worked at two different Shaw manufacturing plants (Plant 4, and Plant WM). At Plant #4, worked with the Project Engineers of both production lines, performed routine checks, attended staff meetings, and worked with various personnel on process improvement projects (waste water; other environmental). At Plant WM, worked under the Technical Service Manager. Job required routine line checks and daily updating of ongoing projects. Involved in various R&D projects. Aided in design ideas, worked with outside vendors and with other departments of Shaw, such as Shaw's Technical Services.

UAB Patient Financial Service (Birmingham, AL), Summer 1999

Office Worker. Performed basic clerical duties, such as copying, typing memos, and logging data. In charge of incoming mail and accounted for all the money collected. Became familiar with the PFS computer software. Used MS Excel to improve the logging methods, which used specific forms and spreadsheets.

American Cast Iron Pipe Company (Birmingham, AL), Summers 1996, 1998

Worked in Cleaning Shed #3 (Mono-cast Department) where pipes were numbered, ground, cut, cleaned, and carried to the storage yards. Worked with an electrician and a railroad crew.

Tubular Products (Birmingham, AL), Summer 1997

Used various factory machines that performed simple actions on small pieces of pipe. This included bending, tapering ends, and punching holes.

Computer Skills

MS Software (Excel, Word, Internet Explorer); Basic knowledge in C++, Fortran, and Visual Basic; Daily use of Internet (for school and personal use)

Other Honors and Achievements

Passed the FE Exam (chemical engineering) in October 2001 Golden Key National Honor Society, Tau Beta Pi (National Engineering Honor Society, Alabama Beta), Omega Chi Epsilon (National Chemical Engineering Honor Society)

References furnished upon request

DAVID LAWRENCE GOBER

622 4th St. NE Apartment # 10 • Tuscaloosa, AL 35404 • phone: 205-562-6323 email: gober002@bama.ua.edu

OBJECTIVE

Engineering position in a petroleum company with the possibility for overseas experience.

EDUCATION

The University of Alabama, Tuscaloosa, Alabama, August 1998-Present

Bachelor of Science, Chemical Engineering; Computer-Based Honors Program (minor); Certificate of Business;

Honors Program Certificate; May 2003

GPA: 3.50/4.00 Dean's List 6 semesters

AWARDS/HONORS

SGA Outstanding Committee Chair, 2002

-given for organization of Capstone Event 2002, community service day,

participation: 650 persons

SGA Foundation Award, 2001

-given for organization of Capstone Event 2001

Computer-Based Honors Program, Outstanding

Junior, 2001

Randall Undergraduate Research Award, 2001

- given for Computational Fluid

Dynamics research, spring 2000 Presidential Scholar, University of Alabama

William Byrd Scholar, State of Mississippi

JGG Frost Endowed Scholar, Vulcan Materials Co.

Mike Graham Endowed Scholar

ACTIVITIES

Student Government Computer-Based Honors Program Lambda Chi Alpha fraternity

University Honors Program **Extensive Community Service** Consistent Involvement in Music

Hands-on Time with Industry Modules:

distillation column

reactor

evaporator

fluid flow

heat exchanger

RELATED EXPERIENCE

Chemical Engineering Summer Lab, Summer 2002

Experience Included:

extensive group work proposal preparation

presentation experience

Research Assistant - Dr. John Weist, Summer 2001

-Utilized Computational Fluid Dynamics to model various systems

Computer-Based Honors Program - Dr. John Weist, Summer 2000

-Utilized CFD's to model transport phenomenon

-Wrote tutorials for these programs used in CHE 424 Transport Phenomenon

Computer-Based Honors Program—Dr. Jonathan Huddleston, Fall 1999

-Used MathCAD to obtain activity coefficients for two-phase systems of varying concentration

ADDITIONAL INFORMATION

Computer Skills:

Strong Excel Background

MathCAD and Polymath

CFD packages Fluent and Gambit

Limited Programming, Fortran and C

Personal:

Some Overseas Experience: Europe and Latin America • Optimistic •

Quick Learner • Highly Motivated • Easy going



The University of Alabama Co-Curricular Record

(A self-reported document)

David L. Gober

gober002@bama.ua.edu

622 4th St. NE Apt. 10 Tuscaloosa, AL 35404 (205) 562-6323

Leadership

Semester/Year Fall 2000- Present	Activity/Experience Capstone Event	Position/Role Chairperson (three-time)	Duties Lead the C.E. committee; Organize the Capstone Event, a day of community service for all UA students; Participation in 2002: 650 persons	Development/Skills Large event planning, delegation of responsibilities, group organization; Set lofty goals and motivating to achieve
Fall 1999- Spring 2000	Student Government Association: External Affairs Committee	Chairperson: Tuscaloosa Business Relations	Liaison between Tusc. businesses and the SGA	Multi-tasking, adapting quickly to changing instructions
Spring 2001	Higher Ed. Day, Montgomery, AL.	Univ. of Alabama, representative	Represent UA in lobbing for Higher Education funding	Inter-personal communication with superiors
Fall 1999- present	Calvary Baptist Church	Student Leader	Lead small group bibles studies, represent college ministry	Build constructive relationships, reliability, listening skills

Service

Semester/Year Summer 1998 and 2001	Activity/Experience Mission trips to Mexico and Venezuela, respectively	Position/Role Participant	Duties Provide physical and spiritual needs for malnourished individuals	Development/Skills Broad exposure to a variety of cultures; New awareness of my role in society
Summer 2001	Restoration Ministries; Chicago, IL	Intern	Assist with service projects for the inner city	Renewed humility and gratitude for blessings; Working with very diverse groups
Fall 1998- Spring 2001	On-campus Involvement (Lambda Sigma, Golden Key, Triangle, Circle K)	Participant	Devote time to young children, disabled and impoverished	Value of contributing to the betterment of society

Various Involvement

Semester/Year Fall 1998- Fall 2001	Activity/Experience Computer-Based Honors Program	<u>Position/Role</u> Member	Duties Complete projects by deadline and present	Development/Skills Computer, group, and presentation skills
Fall 1998- Spring 2002	Lambda Chi Alpha fraternity	Member	Support house functions, recruitment, invest time in others	Cooperation despite differences among group members
Fall 1998- Spring 2002	Music Involvement [member of: Marching Band, Wind Ensemble, Univ. Chorus, Symphonic Band, church choir]	Member	Attend all rehearsals and performances, devote time for practice outside of rehearsal	Full commitment to an organization, placing it above other involvement; Effective time management
Fall 2002- Spring 2003	Arabic language	Student	Invest extraordinary time towards learning a new language	Hopefully at least a small proficiency in the Arabic language

JOHN CASEY GOODWIN

PERMANENT ADDRESS:

71 County Road 391 Killen, AL 35645 UAJC@yahoo.com 256-757-9850 256-710-2214

OBJECTIVE:

To obtain an entry-level position as a safety or operations engineer with a future in engineering management.

EDUCATION:

The University of Alabama-Tuscaloosa, AL

Bachelor of Science in Chemical Engineering Minor in Business Administration GPA 2.7/4.0

UNIT OPERATIONS EXPERIENCE

• Operated Distillation Column at Steady State

• Calibrated GC and operated for concentration

• Operated small scale heat exchanger

• Researched theory and calculations of experiments

• Designed a viscometer for an unknown oil

Operated single and double effect evaporator

Determined extent of reaction for a small scale reactor

Prepared concise reports of the results obtained

WORK EXPERIENCE

University of Alabama Chemical Engineering Dept.

Lab Assistant

Analytical experience with conductivity and atomic absorption.

• Flux determination for polymerized membranes as a function of pressure.

• Design of precursors for polymeric, strong acid, catalytic membrane reactors.

Darden Restauran

Server

Florence Conference Center

Banquet Setup Asst.

July 2002 - September 2003

Tuscaloosa, AL

Graduation Date: August 2003

Florence & Tuscaloosa, AL May - September 2000 Florence, AL

May 1998-August 1999

COMPUTER SKILLS

• ChemCad

Polymath

MatLab

DOS

C++

AutoCad

CapCost

UNIX

PowerPoint

Microsoft Excel

Microsoft Word

Windows 95, 98, XP

AWARDS & ACHIEVEMENTS

- Presidential Scholarship at Northwest Shoals Community College, 1998
- Randall Undergraduate Research Award, April 2003
- Membrane-based Nanostructured Metals for Reductive Degradation of Hazardous Organics-2003 EPA Science Forum, May 2003

ACTIVITIES

- American Institute of Chemical Engineers (AIChE)
- Future Alumni for Tradition and Excellence (FATE)
- Cahaba River Society
- Tuscaloosa Canoe & Kayak Club

REFERENCES: Available upon request

MIRANDA GRAVES

P.O. Box 46, Brierfield, AL 35035 (205) 665-1833 grave024@bama.ua.edu

Objective: To obtain a position as a chemical engineer with an emphasis on research.

School:

Bachelor of Science in Chemical Engineering

May 2004

The University of Alabama, Tuscaloosa, Alabama Mathematics Concentration GPA: 2.59

Bachelor of Science in Chemistry

1998-2002

Judson College, Marion, Alabama Mathematics Minor

Bibb County High School, Centreville, Alabama Advanced Diploma

1994-1998

Work Experience:

Professional Electronics Company.

Summers 1997-2002

Assembled computer boards, boat harnesses, boat panels, and other wiring harnesses.

Judson College work-study program.

Chemistry Department. Dr. George Williams, Professor. Typed tests and made solutions for labs

Assisted in the dining room. Helped with the food placement and worked as a caterer when needed.

Ezy Rider. Chemical Engineer Intern. Mixed paints, putties, and other solutions.

Revelant Course Work:

General and Organic Chemistry, Physical Chemistry, Quantitative Analysis, Chemistry Seminar, Calculus I-IV, Elementary Linear Algebra, Foundations of Mathematics, Chemical Calculations, Engineering Physics, Engineering Materials

Computer Skills:

Word, Power Point, Excel, Windows 95-98, AutoCad, Internet Applications, C++ Programming, Spreadsheet Applications, Dos and Windows, Database Application, MarkUp Language, Web Programming, Visual Basic Programming

Honors and Activities:

National Honor Society, Who's Who Among American High School Students, member of Society of Women Engineers (SWE) and American Institute for Chemical Engineers (AIChE)

Reference: Available upon request.

GUANGHONG GUO

guo002@bama.ua.edu

1118 Hackberry Lane, Apt. A8 Tuscaloosa, AL 35401

(205) 247-5362(home) (205) 348-1624(office)

OBJECTIVE

To obtain a internship or entry-level research and development position in the field of mechanical engineering, aerospace engineering or chemical engineering.

INTEREST

Computational Fluid Dynamics (CFD), Engineering Computation, Chemical Engineering Equipment and Machinery Design

EDUCATION

Ph.D Candidate: Engineering Science and Mechanics (GPA 3.92/4.0) The University of Alabama, Tuscaloosa, AL, 08/2004 (expected)

Master of Science: Engineering Science and Mechanics (GPA 3.875/4.0) The University of Alabama, Tuscaloosa, AL, 12/2001

Master of Engineering: Chemical Engineering Machinery (GPA 3.26/4.0) Tianjin University, Tianjin, China, 03/1996

Bachelor of Engineering: Chemical Engineering Machinery (GPA 80/100) Tianjin University, Tianjin, China, 07/1993

RESEARCH EXPERIENCE Graduate Research Assistant: (01/2002~present)

Research Project: Two-phase Fluid Flow and Inclusion Removal in Continuous Casting

Tundish, project sponsored by the American Iron and Steel Institute

The University of Alabama, Tuscaloosa, AL

· Using **Star-CD** to establish and simulate the process

· Changing different particle removal pattern, comparing the results and finding the best pattern

· Compiling Fortran Program to realize the modeling work

Graduate Research Assistant: (07/1993~03/1996)

Research Project: Experimental Study and Simulation of the drying process in the spin flash dryer

Tianjin University, Tianjin, China

· Set up the experimental equipment, changed different operation conditions and got the results

 Compiled Fortran Program to simulate the drying process and compared the results with experimental data

TEACHING EXPERIENCE

Graduate Teaching Assistant: (08/2000~12/2001)

Department of Aerospace Engineering and Mechanics, The University of Alabama,

- Tuscaloosa

 Taught ESM312 Fluid Mechanics Lab and ESM251 Material Mechanics Lab
- · Tutored and Graded homework of ESM311 Fluid Mechanics

WORKING

Engineer of China Huanqiu Chemical Engineering Company, Beijing, **EXPERIENCE** P. R. China (04/1996~07/2000)

- · Design of Cracking Furnace of a VCM Plant in Panjin, P. R. China (10/1996~03/1999)
- Design of Water-bath Heater of a Silica-Gel Plant in Bangladesh (06/1998~09/1999)
- · Design of Pressure vessels used in Chemical Engineering Plants (04/1996~07/2000)

INTERNSHIP

Practice in Shijiazhuang Fertilizer Plant, P.R.China (09/1992~10/1992)

SKILLS

Star-CD, Fidap, C++, Fortran, Matlab, Basic MS Windows 9x/2000/NT, MS Office (Word, Excel, Powerpoint), AutoCAD Bilingual - Chinese

PUBLICATIONS

- 1. G. Guo and M. A. R. Sharif, Mixed convection in cavities with moving isothermal sidewalls and constant heat flux from partially heated bottom wall, submitted to International Journal of Heat and Mass Transfer, 2003
- 2. G. Guo and M. A. R. Sharif, Mixed convection in rectangular cavities with partially heated constant heat flux bottom wall and moving side walls, BSME-ASME International Conference on Thermal Engineering, 31 December 2001~02 January 2002, Dhaka, Bangladesh

ZHE GUO

P.O. Box 870203 Tuscaloosa, AL 35487 Tel: (205) 454-4299

E-mail: guo001@bama.ua.edu

OBJECTIVE A position that requires extensive experience and knowledge in Chemical and Environmental Engineering

INTERESTS Separation and Extraction, Reaction Engineering, Paper Industry, Process Control, Computer Simulation, Surface Science and Catalyst Research

EDUCATION

Ph.D. in Chemical Engineering (Expected Graduation: May, 2002)

The University of Alabama, Tuscaloosa, AL.

M.S. in Chemical Engineering

Aug., 2001

The University of Alabama, Tuscaloosa, AL.

M.S. in Chemical Engineering

Jul., 1997

Tianjin University, Tianjin, P.R. China

B.E. in Chemical Engineering

Jul., 1994

Tianjin University, Tianjin, P.R. China

EXPERIENCE

Research Assistant

The University of Alabama, Tuscaloosa, AL

Graduate Research

Aqueous Biphasic Systems as the Alternative for the Kraft Pulping Process with Metal Salts as Catalyst

- Phase diagram study for the Aqueous Biphasic Systems
- Lignin partitioning in Aqueous Biphasic Systems
- Applications of Tappi standard methods
- Kinetics study for the delignification process
- Factor design experiments for Catalyzed ABS pulping

Semi-batch reactor design and development for ABS pulping process

Tianjin University, Tianjin, P.R. China

Sep., 1994-Dec., 1998

Graduate Research The Study of Membrane in Catalysis Dehydrogenation of Diethylbenzene

- Fix-bed catalysis reactor design
- Catalyst preparation and characterization
- Membrane preparation and characterization
- Membrane catalysis reactor design and application
- Applications of catalysis experimental methods (GC, TEM, SEM, XRD, XPS, TPD, TPR, BET, DTA)
- Reaction mechanisms and kinetics study

Tianjin University, Tianjin, P.R. China

Mar., 1994-Jul., 1994

Undergraduate Research Study on the Catalyst of CO Hydrogenation to
Methanol

- Catalyst preparation and characterization
- Applications of catalysis experimental methods

Teaching Assistant

University of Alabama, Tuscaloosa, AL.

May, 1999-Jun., 1999

Supervising undergraduate students in the unit operation lab experiments

Tianjin University, Tianjin, P.R. China

Jun., 1995-Jul., 1995

Supervising undergraduate students in catalyst production practice

Internship

Tianjin Petrochemical Corporation	P. R. China	Summer, 1995
Nanjing Chemical Corporation	P. R. China	Summer, 1994
Jilin Chemical Corporation	P. R. China	Summer, 1993

COMPUTER SKILLS

Programming Skills Proficient in C/C++, JAVA and FORTRAN programming Modeling & Simulation MathCAD, ChemCAD, MATLAB Others Windows2000/NT, DOS, MS Office, SigmaPlot

ELECTIVE COURSES TAKEN

Digital Control, Surface Science, Scanning Electron Microscopy, Transmission Electron Microscopy, Advanced Fluid Dynamics, Polymer Materials Engineering, C/C++ Programming, Java Programming.

HONORS/ MEMBERSHIP

Tianjin University, Tianjin, P. R. China

Outstanding Student Fellowship

Solar Engineering Scholarship

Hua Chang Scholarship

University of Alabama, Tuscaloosa, AL

American Institute of Chemical Engineers

PUBLICATIONS / PRESENTATIONS

- 1. J. G. Huddleston, **Zhe Guo**, H. D. Willauer, M. Li, G. C. April and R. D. Rogers, Aqueous Biphasic Reactive Extraction Applied to the Pulping of Lignocellulosics, in preparation
- 2. **Zhe Guo**, M. Li, H. D. Willauer, J. G. Huddleston, R. D. Rogers and G. C. April, PEG-Based Aqueous Biphasic Systems as Improvement for Kraft Hardwood Pulping Process, accepted by *Chemical Engineering Communications*
- 3. **Zhe Guo**, M. Li, H. D. Willauer, J. G. Huddleston, R. D. Rogers and G. C. April, Evaluation of Polymer-Based Aqueous Biphasic Systems as Improvement for Hardwood Alkaline Pulping Process, accepted by *Industrial & Engineering Chemistry Research*
- 4. **Zhe Guo,** J. G. Huddleston, R. D. Rogers, G. C. April, Influence of Reaction Parameters in Hardwood Delignification with Metal Salt Catalyzed Aqueous Biphasic Systems, <u>2001 AIChE Annual Meeting</u>, Reno, NV, Nov., 2001
- 5. **Zhe Guo**, J. G. Huddleston, R. D. Rogers, G. C. April, Delignification of Hardwood in Aqueous Biphasic Systems with Metal Salts as Catalyst, <u>2001 AIChE Annual Meeting</u>, Reno, NV, Nov., 2001
- 6. **Zhe Guo**, J. G. Huddleston, R. D. Rogers, G. C. April, Research on Polymer-Based Aqueous Biphasic Systems as Alternative for Hardwood Kraft Pulping Process, <u>Tri-State Engineering Societies Meeting</u>, Destin, FL, June, 2001
- 7. **Zhe Guo**, H. D. Willauer, J. G. Huddleston, R. D. Rogers and G. C. April, Polymer-Based Aqueous Biphasic Systems as Alternative for Kraft Pulping Process, <u>2001</u> AIChE Spring National Meeting, Houston, TX, Apr., 2001

- 8. **Zhe Guo**, M. Li, H. D. Willauer, J. G. Huddleston, R. D. Rogers and G. C. April, Polymer-Based Aqueous Biphasic Systems as Improvement for Kraft Hardwood Pulping Process, 2000 AIChE Annual Meeting, LA, CA, Nov., 2000
- **9. Zhe Guo,** Z. Ma, Y. Qin, X. Qi, and L. Zhang, Study of Active Phase of Iron-Based Catalyst of Diethylbenzene to Divinylbefnzene, Acta Petrolei Sinica <Petroleum Processing Section>, Vol. 15, No.5, 81, 1999
- 10. Zhe Guo, X. Qi, Z. Ma, L. Zhang, and Y. Qin, Effects of Potassium and Calcium Promoters on Properties of Iron-Based Diethylbenzene Dehydrogenation Catalyst, Acta Petrolei Sinica < Petroleum Processing Section >, Vol. 15, No.4, 72, 1999
- 11. X. Qi, Z. Ma, **Zhe Guo**, T. Wang, and Q. Liao, Study on the application of Al₂O₃ membrane in dehydrogenation of diethylbenzene, Chemical Reaction Engineering and Technology, Vol.17, No.6, 354, 2001
- 12. H. D. Willauer, J. G. Huddleston, M. Li, **Zhe Guo**, G. C. April, and R.D. Rogers, Polymer-based Aqueous Biphasic Systems for Reaction Engineering of the Kraft Pulping Process, Abstract Paper, ACS, 2000, 220th
- 13. X. Qi, Y. Qin, L. Zhang, and **Zhe Guo**, The effects of promoter calcium on catalyst properties of diethylbenzene dehydrogenation, Petrochemicals, Vol. 28, No.12, 807, 1999
- 14. J. Wang, Q. Liao, **Zhe Guo**, and Y. Shao, Study on the Catalyst of CO Hydrogenation to Methanol, <u>Tianjin Chemical Process Annual Academic Meeting</u>, Tianjin, P.R.China, Sep., 1996
- 15. Q. Liao, J. Wang, **Zhe Guo**, and Y. Shao, Study on Decomposition of Methanol on Pd-Series Catalystl, <u>The 8th Chinese National Conference on Catalysis</u>, P.R.China, Oct., 1996

MATTHEW H. HABEL

Current address: 1009 12th Street # 30 Tuscaloosa, Alabama 35401 (205) 391-2003 obiwan 65@yahoo.com

Permanent Address: 681 Rainbow Ave N. W. Rainsville, Alabama 35986 (256) 638-3605

Objective

To obtain an entry level position in Chemical Engineering

Education

Bachelor of Science: Chemical Engineering
The University of Alabama, Tuscaloosa, Alabama
Expected Graduation: May 2002
Cumulative GPA 3.65/4.0 CHE GPA 3.59/4.0

High School Diploma
Plainview High School, Rainsville, Alabama
Graduated: Spring 1998
GPA: 4.23/4.0 99.38/100

Experience

Student Worker Engineering Dean's Office, Fall 2000 to Present. University of Alabama, Tuscaloosa, Alabama. Answered phone calls, which ranged from the general public to large companies. Made Xerox copies and ran errands across campus. Prepared fliers and other literature for the College of Engineering.

Knitter, Summer 1999 and Summer 2000. American Hosiery, Fyffe, Alabama.

Operated and monitored twenty or more KN or CSJ knitting machines. Performed small repairs and added more yarn, elastic, and nylon when necessary. Retrieved the socks from baskets on the machine, inspected the socks, and turned the socks inside out if passed inspection. Trained other individuals when training was needed.

Optician's Assistant, Summer 1997 and Summer 1998. Vision Plus Eyecare, Rainsville, Alabama. Catalogued Lenses. Certified that lens powers were correct. Assisted the Optician in cutting the lenses to fit the patient's eyewear. Certified that the job was done correctly. Dispensed eyewear to patients. Helped answer the phones, file files, and make appointments for patients when necessary.

Landscaper, Summer 1995 and Summer 1996. Rainsville, Alabama.

Mowed lawns. Trimmed hedges and trees. Raked leaves and grass trimmings. Planted bushes and flowers. General upkeep of lawn.

Computers

C++, Fortran, Microsoft Word, Microsoft Excel, Microsoft Works, Microsoft Power Point, Adobe Acrobat Reader 4.0, WordPerfect 9, AutoCAD, Dos, Windows, web browsers, spreadsheets

Leadership

Gamma Beta Phi — Treasurer; Participated in various item drives for organizations and causes such as Toys for Tots,
West Alabama Aids Outreach Foundation, Beat Auburn Beat Hunger (canned food drive), and for needy families
Alpha Lambda Delta

Phi Eta Sigma

National AIChE

University of Alabama AIChE - President, Vice President, President-Elect, Head Intramural Director

Tau Beta Pi

The National Society of Collegiate Scholars

Golden Key

Omega Chi Epsilon

President's List

Dean's List

Volunteer Tutor

References

Available upon request.

MICHAEL ERIC HALLMAN

hallm006@bama.ua.edu

Campus Information: 1900 Rice Mine Road North Apartment #112 Tuscaloosa, AL 35406 Phone 205-342-9020

Permanent Contact Information: 6835 Oakview Lane Cottondale, AL 35453 Phone 205-462-1351 Fax 1-775-254-153

Credit Hours Earned: 121

EDUCATION

Bachelor of Science, Chemical Engineering, Computer-Based Honors (minor), University of Alabama, Tuscaloosa, AL

Expected Graduation Date: May 2004 Current GPA: 3.017

Participant in UA College of Engineering T.I.D.E. Curriculum

(A Division of the National Science Foundation's "Foundation Coalition")

EMPLOYMENT EXPERIENCE

"Process Control Systems Engineer," International Paper, Courtland, Alabama, May-August 2000

- Created informational spreadsheets for analysis of data, programmed subroutines by creating source code, created graphical user interfaces for use by operators

"Pharmacy Technician," Jim Myers Drug, Inc., Tuscaloosa, Alabama, May-August 2001

- Production of Albuterol Sulfate and Ipratropium Bromide breathing treatment solutions

COMPUTER EXPERIENCE

Microsoft Word, Excel,	Windows 9x/2000/XP	X-Windows Platform	FLUENT & Gambit
FrontPage, Publisher	Maple software	AIX/UNIX Platforms	software
PowerPoint, Access,	MATLAB	FOXBORO software	FORTRAN 90 & C
Visio	MathCAD software	ChemCAD software	programming languages

UNDERGRADUATE RESEARCH OPPORTUNITIES

- "Modeling of Drug Release from Porous Hydrogels"; directed by Dr. Christopher S. Brazel, associate professor in chemical engineering; University of Alabama
 - Drug release study for Theophylline, Methylene Blue, Proxyphylline, Buflomedil HCl in PVA polymers
- "Virtual Lab Components for Transport Phenomena Course"; directed by Dr. Duane T. Johnson, assistant professor in chemical engineering; University of Alabama
 - Webpage tutorial developed for projects in Gambit® and Fluent® software in AIX platform
- "Computer Modeling of a Coaxial Shear Magnometer (COSM)"; directed by Dr. Duane T. Johnson, assistant professor in chemical engineering; University of Alabama
 - Constructed a COSM under study using Gambit® and Fluent® software while incorporating Carreau fluid flow properties.

ACTIVITIES & HONORS

American Institute for Chemical Engineers Student Chapter (Webmaster, President-Elect, President)

National American Institute for Chemical Engineers Gold Member

Society of Women Engineers

Carl A. Elliott Society (President, Webmaster)

University of Alabama Future Alumni for Tradition and Excellence (FATE)

Ten Troupe Gymnastics Fan Club

Summer Counselor for University of Alabama Student Introduction to Engineering (SITE)

Participant in Alternative Spring Break Program (2002 New York City Team, 2003 Jamaica Team)

University of Alabama "Million Dollar Band" (trombone section member, band staff member, band staff coordinator)

Alabama State Board of Health Licensed Emergency Medical Technician (Basic Level, CPR Certified, Emergency Vehicle Operator's License)

Recipient of 2001 Randall Undergraduate Research Award

Recipient of UA Alumni Honors Scholarship, UA Chemical Engineering Departmental Scholarship, Robert C. Byrd Congressional Scholarship, and UA Computer-Based Honors Program Fellowship

Member of Omega Chi Epsilon Honor Society, Golden Key International Honour Society, Gamma Beta Phi Honor Society, National Society of Collegiate Scholars (NSCS), Phi Eta Sigma Honor Society, Alpha Lambda Delta, University Honors Program (UHP) / Honors Program Students of America (HPSA), Computer-Based Honors Program (CBHP), and Omicron Delta Kappa Honor Society

REFERENCES

Available Upon Request

JULIE MARIE HOLDSWORTH 1208 9th AVENUE APT. 3 TUSCALOOSA, AL 35401 (205)248-6308 home, (334)467-6677 cell

holds001@bama.ua.edu

OBJECTIVE

A full-time position in chemical or environmental engineering.

EDUCATION

Bachelor of Science in Chemical Engineering, Environmental Engineering Certificate The University of Alabama-Tuscaloosa Graduation Date: May 2003 Che GPA: 2.57

SUMMER LAB

A five week extensive study and demonstration of pilot-scale industrial equipment providing exposure to operation, safety procedures, and teamwork. The Unit Operations Laboratory is set up to simulate a working environment with required technical proposal deadlines, presentations to Professors, and peer reviews. State-of-the-art visualization equipment is used in the research and instruction in distillation, extraction, and reaction engineering.

EMPLOYMENT

Office of Sponsored Engineering Programs
Office assistant for the faculty and staff. Duties include distributing monthly reports, maintaining files, and various clerical tasks.
University of Alabama Chemical Engineering Department
Office assistant to the Dean and staff. Duties include various

UNIVERSITY OF ALABAMA CLUBS AND ACTIVITIES

clerical tasks.

American Institute of Chemical Engineers 1998-Present Student Government Association 1999 Alpha Omicron Pi Social Sorority, Alumni 1998-2002

UNIVERSITY OF ALABAMA SCHOLARSHIPS AND AWARDS

The Clarence W. and Martha T. Scott Freshman Scholar Scholarship from the College of Engineering

The Moxley Memorial Scholarship from the College of Engineering
The Joe Macon, Jr. Scholarship from the Montgomery/Lowndes County Alumni
Charter of the University of Alabama

Montgomery Business Women Association Scholarship, 1999 Alabama Business Women's Association Scholarship, 2000-2002

COMPUTER SKILLS

Microsoft Excel, Word, PowerPoint, ChemCad, CapCost *References can be furnished upon request.

XIAO HUANG

87-03, 55th Ave. #1 Elmhurst, NY 11373 (718)205-2636 Xiao.huang@ua.edu

OBJECTIVE

, T. W. Je

To obtain a postdoctoral or entry-level research and development position in the field of Chemical Engineering, Polymer Chemistry, Pharmaceutics, or Biotechnology.

EXPERIENCE

Graduate Research Assistant, 8/1999-8/2002

Research Project: Analysis of the burst effect for small molecular weight solutes release from poly(vinyl alcohol) hydrogels.

The University of Alabama, Tuscaloosa, AL

- Prepared drug-loaded crosslinked poly(vinyl alcohol) (PVA) samples.
- Conducted dynamic swelling experiments on hydrogel samples.
- Conducted drug release experiments in dissolution and sampling system.
- Conducted SEM, DSC, FTIR, Instron experiments to study the properties of PVA hydrogels.
- Learned to operate Confocal Laser Scanning Microscope (CLSM).
- Established mathematical models to simulate the release process, especially the initial burst part, of the solutes from swellable polymer network.
- Compiled C++ program to realize the modeling work.

Graduate Research Assistant, 9/1995-3/1999

Research Project: Non-ideal mixing in stirred batch bioreactors.

Tianjin University, Tianjin, China

- Studied non-ideal mixing of non-Newtonian fluid in stirred bioreactors by the measurement of circulation time distribution (CTD) by flowing-follower method.
- Compared and discussed mixing properties of traditional Rushton turbine and a novel axial-flow impeller by analyzing the CTD results.
- Established structured mixing models to simulate the circulation time distribution.
- Compiled C++ and Fortran programs for modeling study.

Undergraduate Research Assistant, 3/1995-7/1995

Research Project: Study on kinetics of Xanthan fermentation.

Tianjin University, Tianjin, China

- Conducted batch and semi-batch Xanthan fermentations
- Studied the kinetics of cell growth, Xanthan gel production, and C-source consumption.
- Discussed fermentation results under different initial C- and N-source concentrations.
- Applied Artificial Neural Network (ANN) in the simulation of fermentation kinetics.

Engineering Internship

Jiuhuan Group, Shandong, China, 7/1996-8/1996

Shijiazhuang Pharmaceutical Corporation, Hebei, China, 7/1994-8/1994

Cangzhou Chemical Corporation, Hebei, China, 7/1993-8/1993

EDUCATION

Ph.D: Chemical Engineering

The University of Alabama, Tuscaloosa, AL, 8/2002 (GPA 4.0/4.0)

Master of Science: Biochemical Engineering

Tianjin University, Tianjin, China. 3/1998 (GPA: 92/100)

Bachelor of Engineering: Biochemical Engineering

Tianjin University, Tianjin, China, 7/1995 (GPA: 89/100)

AFFILIATIONS

American Institute of Chemical Engineers (AIChE), 7/2000-present

American Chemical Society (ACS), Polymer Chemistry division, 6/2000-present

SKILLS

SEM, DSC, TGA, UV-Vis spectroscopy, FTIR, HPLC/GPC, Instron, CLSM, Dissolution systems, etc.

C++, MS Windows 9x/2000/NT, MS Office (Word, Excel, Powerpoint), Fortran, Basic,

Matlab, Mathcad, Chemcad, Sigma Plot, Bilingual - Chinese.

XIAO HUANG

HONORS

Dean Paul Garner Scholarship by Tuscaloosa's International Friends, Dec 2001, Tuscaloosa, Alabama.

Graduate Council Research Fellowship for summer, 2001, May 2001, The University of Alabama.

Graduate Council Research Fellowship for 2001-02 academic year, Mar 2001, The University of Alabama.

College of Engineering Outstanding Ph.D. Research Award, Feb 2001, The University of Alabama.

University of Alabama National Alumni Association Graduate School Scholarship, Sep 1999.

Graduate Research Assistantship, Aug 1999 - Aug 2002, The University of Alabama.

Procter & Gamble Scholarship, Jan 1998, Tianjin University, Tianjin, China.

Ding Xu-Huai Scholarship, May 1995, Tianjin University, Tianjin, China.

Outstanding Student Scholarship, 1992 - 1998, Tianjin University, Tianjin, China.

PUBLICATIONS

- 1. X. Huang and C.S. Brazel, Review: On the importance and mechanisms of burst release in polymeric matrix-controlled drug delivery, Journal of Controlled Release, 73 (2001), 121-136.
- 2. X. Huang and C.S. Brazel, Analysis of burst release in PVA gels, Chemical Engineering Communications, 2002, in press.
- 3. X. Huang, C.S. Brazel, Minimization of initial burst in poly(vinyl alcohol) hydrogels by surface extraction and surface preferential crosslinking, accepted to publish by International Journal of Pharmaceutics, 2002.
- 4. C.S. Brazel and X. Huang, "The cost of optimal drug delivery: Reducing and preventing the burst effect in matrix systems", submitted to S. Svenson, ed. Carrier Based Drug Delivery, ACS Symposium Series, June 2002.
- 5. X. Huang, C.S. Brazel, "Understanding the burst effect: Release in PVA hydrogel systems, Improvements in modeling, and Approaches to preventing burst," submitted to Proceed. Int. Symp. Control. Rel. Bioact. Mater., 29 (2002)
- 6. C.S. Brazel, A.N. Roberts, and X. Huang, Surface-preferential crosslinking in hydrogels to minimize the burst effect and design tunable lag times for drug delivery, submitted to IEEE Trans. Biomed. Eng., 2002.
- X. Zhao, X. Huang, H. Ma, S. Fan, and Z. Yu, Circulation time distribution and structured mixing model of bioreactors, Huagong Xuebao/Journal of Chemical Industry and Engineering (China), 50 (1999), 326-336.
- 8. X. Zhao, H. Ma, X. Huang, R. Ban, Influence of N-source concentration on *Xanthan* fed-batch fermentation, Huagong Xuebao/Journal of Chemical Industry and Engineering (China), 48 (1997) 247-251.
- 9. X. Huang, X. Zhao, H. Ma and S. Fan, Measurement of circulation time distribution and structured mixing model of stirred bioreactor, Proceedings of Asia-pacific Biochemical Engineering conference, Beijing, China, 1997.
- 10. H. Ma, X. Huang, X. Zhao, Application of artificial neural network in estimation of state of fermentation process, Proceedings of the Seventy National Conference on Biochemical Engineering, Qingdao, China, 1997.
- 11. X. Zhao, H. Ma, R. Ban, and X. Huang, Influence of micro-environments on *Xanthan* fermentation in stirred bioreactor, Proceedings of the Seventh National Conference on Biochemical Engineering, Qingdao, China, 1997.
- 12. H. Ma, X. Huang, X. Zhao, and Y. Zhao, Parameter estimation of kinetic models of *Xanthan* fermentation, Proceedings of the 8th National Conference of Chemical Engineering, Tianjin, China, 1996.
- 13. C.S. Brazel A.M. Thornton and X. Huang, Dependence of burst release on pH of medium for release of streptokinase from poly(N,N-diethylaminoethyl methacrylate-co-2-hydroxyethyl methacrylate) hydrogels, in preparation, to be submitted to Journal of Biomedical Materials Research.
- 14. X. Huang and C.S. Brazel, Modeling of burst release from hydrogels based on a diffusion-convection model, in preparation, 2002.

PRESENTATIONS

- 1. A. Roberts, **C.S. Brazel** and X. Huang, Surface-preferential crosslinking in hydrogels to minimize the burst effect and design tunable lag times for drug delivery, to be presented at the 2nd Joint EMBS-BMES Conference, Houston, TX, Oct 2002.
- 2. **C.S. Brazel** and X. Huang, Development of a convection-diffusion model to account for the burst effect in hydrogel systems, to be presented at 2002 AIChE Annual Meeting, Indianapolis, IN, Nov 2002.
- 3. X. Huang and C.S. Brazel, Understanding the burst effect: Release in PVA hydrogel systems, improvements in modeling, and approaches to preventing burst, 29th Annual Meeting of Controlled release society, Seoul, Korea, Jul 2002.
- 4. **C.S. Brazel** and X. Huang, The cost of optimal drug delivery: Reducing and preventing the burst effect in matrix systems, invited by ACS 2002 Annual Meeting, Orlando, Florida, Apr 2002.
- X. Huang and C.S. Brazel, Modeling of burst release of small molecular weight solutes from hydrogels based on a diffusion-convection model coupled with surface desorption, presented at AIChE 2001 Annual Meeting, Reno, Nevada, Nov, 2001.
- 6. **X. Huang**, B. Chestang and C.S. Brazel, On the minimization of the burst release of small molecular weight solutes from PVA hydrogels: surface extraction and surface-preferential crosslinking techniques, presented at AIChE 2001 Annual Meeting, Reno, Nevada, Nov, 2001.
- 7. **X. Huang** and C.S. Brazel, An investigation of burst release of low molecular weight drugs from poly(vinyl alcohol) hydrogels, presented at AlChE 2000 Annual Meeting, Los Angeles, California, Nov 12-17, 2000.
- 8. **X. Huang** and C.S. Brazel, Analysis of burst release of small molecular weight drugs from poly(vinyl alcohol) hydrogels, presented at 4th National Graduated Research Polymer Conference, Hattiesburg, Mississippi, Jun 18-21, 2000.
- 9. **X. Zhao**, H. Ma, and X. Huang, Investigation of the effect of the initial nitrogen concentration on Xanthan fermentation using the rate variable method, 1996 Asian-pacific Chemical Reaction Engineering Forum, Beijing, China, 1996.

Eden June

Objective

To obtain a summer internship with a consulting firm in an engineering/planning capacity.

Experience

May 2003-present Apalachee Regional Planning Council

Tallahassee, FL

Planning Intern—Emergency Management

- Acted as a technical and planning consultant to rural local governments.
- Performed risk assessments, devised new mitigation strategies, and solicited public commentary to update and create Local Mitigation Strategies for 3 North Florida counties.
- Saved Council \$30,000+ by performing benefit-cost analysis of mitigation projects and \$3000 by constructing a web page.

Jan.-Aug. 2003 Florida State University/Conflict Resolution Consortium Tallahassee, FL Graduate Research Assistant

- Designed and conducted research on the effectiveness of the Florida Environmental Litigation Reform Act (ELRA) Program.
- Authored an ELRA program efficiency report for the Florida State Legislature.

Jan.-May 2001 Georgia Public Interest Research Group Atlanta, GA Research Associate

- Conducted research/formulated policy recommendations on two projects affecting the water of Georgia and over 3 million metro-Atlanta residents.
- Expanded research tools to include hydrological/geographical analysis with GIS.
- Co-authored a policy recommendation to the Georgia EPD and EPA about TMDL implementation for the region.

Education

2003-Present Florida State University T

Tallahassee, FL

- M.S.P., Urban and Regional Planning. Anticipated graduation date: December 2004.
- Specialization: Environmental Planning and Natural Resource Management.

1997-2002 Georgia Institute of Technology Atlanta, GA

- B.S., Chemical Engineering.
- Minor in Public Policy with Environmental Focus.
- Attended the Estudio Internacional Sampere Language School in Madrid, Spain.

Qualifications

Certifications: Engineer-in-Training (EIT), GIS Arc Info, Spatial Analyst, Model Builder Computer Skills: Operating Systems: MS-DOS, MS Windows (all versions), Mac O/S; Programming Languages: HTML, JAVA; Software Tools: Word, Excel, Access, PowerPoint, Mitigation 20/20; extensive web design experience Professional Affiliations: Society of Women Engineers, American Planning Association

Professional Interests

Environmental impact assessment, international sustainability, water resource management

Sara Eloise Kelcher

2464 Highland Rd. Upland, CA 91784 (909) 529-6018 saraatucr@hotmail.com

Objective:

To obtain valuable work experience within the field of Chemical Engineering.

Education:

University of California, Riverside.

BS in Chemical Engineering, June 2004. Cumulative college GPA: 3.919.

Relative courses: Chemical Process Analysis, Fluid Mechanics, Mass Transfer, Thermodynamics, Numerical Methods, Kinetics, Analytical Lab experience, environmental engineering courses, Organic Chemistry, Separations, Catalysis, Design.

Experience:

Summer 2003 Alliance for Science and Technology Research in America (ASTRA),

Washington DC

Responsibilities: Research Intern for Budgetary analysis, Technical Writing,

Legislative lobbying

Summer 2001 and Summer 2002

Sanitations District, LA County.

Responsibilities: Student Lab Technician working on Suspended Solids Test, Total Dissolved Solids, Water Hardness, Sample Receiving, Solids analysis

2001-present

Learning Center, UCR.

Responsibilities: Tutor students in Calculus, Pre-Calculus, Computer Science

and Upper division math

Computer Skills:

Programming experience in C++ and MATLAB. Experienced using Excel,

Word, PowerPoint and Publisher.

Languages:

Conversational Spanish.

Extra Curricular Activities:

2003-present Epsilon Eta Sigma: Engineering honor society (soon to be Tau Beta Pi),

Treasurer. Service organization with mentoring program.

2002-present Society of Women Engineers, national and student member. Activities chair of

the UCR Student section.

AIChE (American Institute of Chemical Engineers), national and student

member. President of UCR Student Section.

2001-present University of California, Riverside Engineering Ambassador.

Responsibilities: Conduct school tours, participate at question and answer

orientations, attend various engineering activities.

References:

Available upon Request

CHRISTOPHER SCOTT KNIGHT

539 Hinson Drive, Thomasville, AL 36784 Home: (334)636-2310; Cell: (888)347-5091; Email: uachemeng@yahoo.com

EDUCATION

Bachelor of Science Degree in Chemical Engineering

The University of Alabama, Tuscaloosa, AL

Graduation date: May 2004

Cumulative GPA: 3.54/4.0, Chemical Engineering GPA: 3.67/4.0 Scheduled to take the Fundamentals of Engineering exam April 2004

Relevant courses taken:

Mass and energy balance, separation processes, chemical reactor design, fluid mechanics, heat transfer

Summer Lab 2003: emphasis on operation of distillation column, double-effect evaporator,

shell-and-tube heat exchangers, and adsorption column where all operations included start-up, steady-state, and shut-down procedures

Senior design class: a 250 mile natural gas pipeline was designed and an economic analysis was

performed on the pipeline

The University of West Alabama, Livingston, AL GPA: 3.91/4.0

Core curriculum classes taken, no degree obtained

*Worked full time to support self and family while attending school full time and commuting 210 miles per day

ACHIEVEMENTS/ ORGANIZATIONS

Mark and Dixie Cooper Engineering Scholarship

Dean's List/President's List: 6 semesters

Phi Eta Sigma Honor Society

American Institute of Chemical Engineers

WORK EXPERIENCE

Self-employed in carpenter/construction work, Thomasville, AL May 2001-present

Direct interaction with customers, submitting estimates and bills, quality control assessment, coordinating multiple jobs

Thomasville Volunteer Fire Department, Thomasville, AL October 1991-present

Battalion Chief: January 2003-present

Coordinate rescue and fire suppression efforts in dynamic emergency operations, develop and implement training and safety programs, conduct building and safety inspections, conduct personnel, equipment, training and performance reviews, conduct fire safety workshops for civic and children's organizations

Captain: January 1996-December 1998

Managed specific fire and rescue operations, implemented training programs, conducted performance reviews, maintained optimum operating condition of tower truck

Lieutenant: January 1994-December 1995

Entry team leader, extrication leader

Firefighter of the Year: 1994; Competition Team member: May 1994-August 2003;

Hazardous Material Technician: July 1992-july 1993

Knight Construction Company, Thomasville, AL May 1990-May 2001

Supervisor January 1994-May 2001

Signed time cards, scheduled jobs and employees, employee performance reviews, scheduled equipment maintenance, interviewed potential employees, two years experience in construction work in chemical and paper industries

COMPUTER SKILLS

Microsoft Windows 95,98,2000, XP, Microsoft Excel, Word, PowerPoint, Chemcad, Polymath

Jair Lizarazo, MSChE

1428 Southern Gardens Dr. Tuscaloosa, Al. 35404-2038 Phone (205) 758 7423 jair.lizarazo@ua.edu

SUMMARY

Ph.D. in Chemical Engineering, Full bilingual (English – Spanish), Computer Programming, Supercritical Fluids, Natural Products, Catalyst, Hydrogen Production, Petrochemical, Pulp and Paper, Quality Control.

Exp Grad Date: May 2004

Grad Date: Jun 2001

Grad Date: Nov 1997

EDUCATION

The University of Alabama, Tuscaloosa, AL

Ph.D. in Chemical Engineering, GPA: 3.7/4.0

Thesis: "Coke formation on Ceria supported precious metal catalyst for production of hydrogen."

University of Puerto Rico at Mayagüez, Mayagüez, PR

MS in Chemical Engineering, July 2000, GPA: 4.0/4.0

Thesis: "Evaluation of an Energy Production Alternative for Disposal of Used Cooking Oil."

Universidad del Valle, Cali, Colombia, BS in Chemical Engineering, Nov. 1997, GPA: 4.12/5.00

Thesis: "Supercritical Fluid Extraction Modeling of Chamomile's Essential Oils."

WORKING EXPERIENCE

Research Assistant, University of Alabama, Tuscaloosa, AL

Responsible for designing, purchasing, installing and evaluating equipment used on my research project.

Jan 2001 - Present

Teaching Assistant, University of Alabama in Huntsville, Huntsville, AL

Repaired, installed and evaluated laboratory equipment for the Unit Operations Laboratory.

Aug 2000 - Dec 2001

Research Assistant, University of Puerto Rico at Mayagüez, Mayagüez, PR
Laboratory Supervisor. Designed, purchased, installed and evaluated equipments used in the Electrochemistry and Metal Crystallization Laboratories. Projects included: fuel cells, oil steam reforming, steam explosion, metal particulate growth and kinetic precipitation process, electrode deposition, and the network system interconnection used in these facilities. Supervised of undergraduate students.

Teaching Assistant, University of Puerto Rico at Mayagüez, Mayagüez, PR
Class lectures, graded report/tests for the Mass and Energy Balance Course.

Aug 1997 - May 1999

Universidad Cooperativa de Colombia, Cali, Colombia

Computer Science Professor. Courses: Advanced programming in Visual Basic, Database Design.

Processing Plastics Enterprise, Cali, Colombia

Designed and programmed a system used to control and plan the production with Stock Management Option.

Installs this system permitted quick identification of factors leading to time, production and quality loss in plastic products that were used for economic analyses at the Top Manager Level.

Colombian Petroleum Enterprise, Barrancabermeja, Colombia

Jan 1995 - Jul 1995

Engineering Department Assistant. Programmed energy consumption index calculations for distillation units.

Established statistical methods and tools needed to identify the critical factors on Energy Saving.

Paper Producer Enterprise (PROPAL), Caloto, Colombia

Aug 1994 - Dec 1994

Identified factors leading to time, production and quality losses in paper machines. Develops of statistical routine for paper machine variables.

SKILLS

Laboratory experience and chemistry knowledge: GC-MS/TCD/HID, HPLC, TLC, X-Ray, SPX, TEM, SEM, BET, Stop Fast Reactor, calorimetric, distillation, electrogravimetry, membrane separations, liquid-liquid extraction, SPME, supercritical fluid extraction, cyclodextrine encapsulation.

Programming Languages: C++, Borland Pascal, JAVA, Visual dBase, MS Access, MS Excel, Visual Basic, G for LabView.

Languages: Spanish, English and reading comprehension of French.

Quick learner. Excellent interpersonal skills.

PRESENTATIONS / PUBLICATIONS

ENTATIONO / FODEIOATIONO	
225th ACS National Meeting, New Orleans, LA "Oxidative Steam Reforming of Heavier Hydrocarbon Fuel."	Mar. 2003
VI Environmental Symposium, Mayagüez, PR "Photo Catalytic Detoxification of Metal-Organic Polluted Waters: Reduction of Ultrasonic Medium." (1st Prize)	Dec.1999 Gold in an
AlChE's 1999 Annual Meeting, Dallas, TX, "Evaluation of an Energy Production Alternative for the Disposal of Used Cooki Generated by Fast Food Restaurants." (3rd Prize)	Nov. 1999 ng Oil
XVIII Interamerican Congress of Chemical Engineering, San Juan, PR "Fuel Cells Applications In Puerto Rico, An Environmentally Friendly Technolog	Dec. 1998 ly."
IV Italian Conference on Supercritical Fluids and their Applications, Capry, Italy "An Experimental Design for the Supercritical Fluid Extraction of Fragrances from Herbaceous Matrices and Tropical Fruits."	
V Colombian Congress of Phitochemistry, Medellín, Colombia "Supercritical Fluid Extraction of Essential Oil from Colombian Chamomile Flow	Aug. 1997

HONORS

Laureate Undergraduate Research Thesis, University of Valle, Cali, Colombia Nov. 1997

G. SEAN MADDOX

1401 University Boulevard, Apartment E-11

Kingsport, Tennessee 37660

205.310.6595

maddoxsean@hotmail.com

Education

Master of Art in Banking and Finance

May 2003

The University of Alabama Concentration: Risk Strategy

GPA: 4.0

Bachelor of Science in Chemical Engineering

May 2002

The University of Alabama

Minor: Finance

Cumulative GPA: 3.75 Minor GPA: 4.0

Designations

Level II Candidate in the CFA program

Experience

Business Financial Analyst

August 2003 - Present

Independent Contractor with Eastman Chemical Company

Reconstruct and adjust financial statements for special projects. Prepare weekly sales and earnings, cost, and other reports. Develop financial models to help identify value-adding activities. Perform adhoc financial analyses. Assist with routine business forecasting.

Business Finance Graduate Teaching Assistant

August 2002 - Present

The University of Alabama

Reinforced classroom concepts by working numerical examples in a lab setting. Met with students on an individual basis to clarify misunderstandings. Helped administer exams. Maintained grade records.

Financial Analyst Intern

May 2002 - July 2002

Eastman Chemical Company, Kingsport, TN

Valued a lease renewal versus buy scenario identifying sixty million dollars of savings. Developed the framework of a financial analysis for a capital project needed to satisfy new environmental regulations. Researched and updated key economic indicator data used to support financial analyses.

Computer Skills

C++

MS-Office

Windows

Maple

VBA

Internet Explorer

Matlab

Minitab

Leadership

President and Treasurer of the Alabama Society of Professional Engineers

Ambassador for the College of Engineering American Institute of Chemical Engineers

Kids' Klub

Treasurer of the Paty Residence Hall Council Small Group Leader in a Student Ministry

Toastmasters

Honors

Bedsole Scholar

Dean's List Elliot Society

Golden Key International Honour Society

Graduate Council Fellow Graduated Magna Cum Laude Honors Program

Omega Chi Epsilon Presidential Scholar President's List Tau Beta Pi

Interests

Cooking, fishing, hunting, hiking and camping, canoeing, fitness, photography

Sonya Mazumdar mazums@rpi.edu

Permanent Address: 34 Piedmont Drive Old Bridge, NJ 08857 (732) 607-2843 Current Address: Church II 3001 1999 Burdett Avenue Troy, NY 12180 (518) 276-4706

Objective

To obtain an internship in chemical engineering to explore opportunities in the field.

Education

Rensselaer Polytechnic Institute, Troy, NY B.S. Chemical Engineering, Class of 2005

2001 - Present

- Minor in Chemistry
- Concentration in Technological Entrepreneurship

Current GPA: 3.37/4.0 Dean's List

Work Experience

Engelhard Corporation, Iselin, NJ

May - August 2003

 Strategic Technologies – Characterization Lab Intern – Prepared ceramic and metal samples for microscopy, prepared materials for analysis by x-ray diffraction, utilized computer software to identify composition of different substances; job entailed application of different chemistry and physics principles, organization, and responsibility.

Rensselaer Polytechnic Institute, Troy, NY

September 2002 – Present

 Office of Residence Life - Work-Study Employee - Answered phone calls, provided assistance to students and office directors, and performed other office duties; job entailed organization and communication.

Community YMCA Camp Arrowhead, Marlboro, NJ

June - August 2002

 Senior Counselor – Supervised children on a daily basis; organized and assisted specialists with daily activities; job entailed effective teamwork, communication, and responsibility

Relevant Courses

- Entropy, Energy, and Equilibrium
- Introduction to Differential Equations
- Modeling of Analysis and Uncertainty
- Computer Science I

Computer Skills

- Operating Systems: Microsoft Windows 98/2000/XP
- Software: Microsoft Word 98/200/XP, Microsoft Excel 98/2000/XP, Microsoft PowerPoint 98/2000/XP, Microsoft Visual C++ 6.0, MDI Jade 5.0, Minitab, Maple 7, LabView 6i, TestView, SolidWorks 2001 Plus

Extracumicular Activities

- Resident Assistant 2003-2004
- Professional Leadership Program
- Society of Women Engineers Membership Coordinator
- American Institute of Chemical Engineers
- Indian Students Association
- Tutor for the RPI Advising and Learning Assistance Center
- Cross-Cultural Communication Leadership

Awards/Honors

- Rensselaer Medal Award and Scholarship
- Rensselaer Alumni Scholarship
- The National Dean's List (2001-2003)

Melvin J. McCann

7032 Watchman Circle Montgomery, AL 36116 (334)-356-0054

Email: mccan010@bama.ua.edu

Dear Sir/Madam:

I recently graduated from the University of Alabama with a Bachelor of Science in Chemical Engineering. I am seeking entry-level employment as a Chemical/Process Engineer, Chemist, Mathematician, Analyst or Lab Technician. Although a recent graduate, I am not a typical new graduate. I have acquired excellent leadership skills and effective problem-solving methods through my experiences in a student intern program.

As a process development co-op, I worked in the Business Support Laboratory at Ciba Specialty Chemicals Inc. in McIntosh, AL. I assisted with the revision of procedures for the laboratory scale-up of many products and the practical application of the projects. I also participated in making key decisions on several individual experiments that were assigned to me and occasionally I was responsible for supervising the laboratory. I also was the leader of a chemical process design project in which I was responsible for assuring that the team met important deadlines.

My experiences have made me keenly aware of the value of commitment and dedication to assigned tasks and the corporate business objective. For your review, I have enclosed a copy of my resume and I am available to speak with you at your convenience about any entry-level positions. Thank you for your kind consideration.

Sincerely,

Melvin J. McCann

Enclosure: Resumé

Melvin J. McCann

7032 Watchman Circle Montgomery, AL 36116 (334)-356-0054

Email: mccan010@bama.ua.edu

OBJECTIVE: To obtain entry-level employment that will expand my knowledge of chemical engineering and technical data requirements.

EDUCATION

December 16, 2002

The University of Alabama

Tuscaloosa, AL

Bachelor of Science, Chemical Engineering (Concentration: Mathematics)

Design Project: Witten Synthesis of Dimethyl-terepthalate

RELEVANT COURSEWORK

Process Calculations

Chemical Engineering Thermodynamics

Fluid Flow Operations

Heat Transfer Mass Transfer

Chemical Reactor Design

Corrosion Science and Engineering

Unit Operations Laboratory

Analytical Chemistry

Calculus

Transport Phenomena

Process Dynamics and Controls

Statics

Chemical Process Design Chemical Health and Safety

Engineering Materials Organic Chemistry Discrete Mathematics

Linear Algebra

Differential Equations

EXPERIENCE

August-December 2000

Ciba Specialty Chemicals Inc.

McIntosh, AL

Process Development Co-op, Process Development Business Support Lab

- Worked as an intern for the Business Support Lab located in the Additives Process Development Department
- Worked as an assistant chemist on the scale-up of products for multiple processes
- Used 30 liter batch chemical reactors and pressure reactors
- Worked with a team of chemists and chemical engineers on several projects involving Pilot Plant operations
- Responsible for performing inspections on eye-washes and safety showers
- Responsible for developing improved procedures to more efficiently carry out the scale-up of many products
- Assisted in supervising the Business Support Lab and provided support to fellow chemists and chemical engineers
- Worked on several individual experiments in which eventual scale-ups were performed based on my findings
- Responsible for the documentation and proper disposal of discarded waste solvents
- Completed fire extinguisher training and PPE training

Environmental Operations Co-op, Environmental Health & Safety Department

- Worked as an intern for the Environmental Health & Safety Lab located in the Additives Environmental Operations Department
- Worked on a team of environmental scientists providing data that determined whether or not production at the plant drastically affected the community
- Calibrated instruments such as pH meters and Dissolved Oxygen meters
- Gathered samples from specific units and landmarks around the plant site using laboratory equipment
- Performed tests such as TSS (Total Suspended Solids) and BOD (Biochemical Oxygen Demand) on samples
- Followed governmental procedures for providing results from sample testing
- Completed the extensive 40 hour Hazardous Waste Operations Training at the University of South Alabama's Brookley Field campus

August 1997 to August 1999

Tuscaloosa, AL

Stockroom Clerk, The University of Alabama Department of Chemistry

- Filled orders at the stockroom window for laboratories
 - Filled orders at the stockroom window for students
 - Helped determine items that need to be restocked
 - Assisted in processing orders for supplies
 - · Refilled and sold chemicals and solvents such as Acetone

HONORS & ACTIVITIES

- University of Alabama's National Alumni Association
- Cooperative Education Program Graduate
- Capstone Engineering Society
- American Institute of Chemical Engineers
- Intramural Sports: Basketball and Flag Football
- Intramural Basketball Referee
- J.G.G. Frost Chemical Engineering Scholarship recipient

References available upon request

Michelle McClellan

Current Address: 310 North Hall 1999 Burdett Avenue Troy, NY 12180

(518) 276-7553

mcclem@rpi.edu

Permanent Address: 20 Terrance Avenue Clinton, MA 01510 (978) 368-7534

Objective

An internship in Chemical Engineering that will help me to explore the opportunities in this field.

Education

Rensselaer Polytechnic Institute, Troy, NY

2001 - Present

B.S. Chemical Engineering, Class of 2005

Minor Chemistry Current GPA: 2.41

Work Experience

Office of Residence Life at RPI, Troy, NY August 2002 - Present

Resident Assistant in a coed residence hall for upperclassmen

Marlboro Country Club, Marlboro, MA May 2002 - August 2002

Dining Room and Function Server - Provided customer service; maintained the dining room as well as the cook space; focused on teamwork, organization, and communication in a busy environment

JC Penney, Marlboro, MA

August 1999 - January 2002

Customer Service Representative - Provided customer service; replenished stock; kept maintenance of store

Rockbestos Surprenant Cable Co. Clinton, MAJune 2000 - August 2000

MIS Summer Intern - Updated and maintained computer systems; installed computer hardware and software; instructed employees on how to use new software, implemented a help desk; focused on technical skills as well as strong employee interaction

Relevant Courses

- Þ Fluid Mechanics and Heat Transfer; Energy, Entropy, Equilibrium
- Þ Material, Energy, and Entropy Balances; Modern Techniques in Chemistry
- \triangleright Organic Chemistry, Chemistry of Materials 1 & 2
- Calculus 1 & 2; Differential Equations >
- Physics; Computer Science Þ
- Þ Modeling and Analysis of Uncertainty
- Introduction to Engineering Analysis, Engineering Processes Þ
- Þ **Engineering Graphics and Computer Aided Design**

Computer Skills

- Platforms: Microsoft Windows 95/98/2000/XP; Mac OSX
- Operating Software: Microsoft Word 95/98/200/XP; Microsoft Excel 95/98/2000/XP; Microsoft PowerPoint 95/ 98/2000/XP; Maple 8; LabView 6i; TestView, SolidWorks 2001 Plus, AutoCad, MiniTab
- Programming Languages: C++, HTML, XTML

Extracurricular Activities

- American Institute of Chemical Engineers
- Society of Women Engineers; Women's Mentor Program
- D Resident Assistant/Office of Residence Life
- \triangleright Culinary Club - Secretary
- Mac User's Group

References

Available upon request

John Bradley McKinney

Permanent Address
205 Royal Liberty Road

Blountsville, Al 35031 205-429-5355

Local Address 900 Hargrove Road Apt 227

Tuscaloosa, Al 35401 205-394-1100

ibradmckinney@yahoo.com

Strengths

Hardworking, responsible, personable, and able to work well with others, willing to travel and relocate

Education

Bachelor of Science in Chemical Engineering (expected December 2003)

The University of Alabama, Tuscaloosa, Al

G.P.A.: 3.45/4.0

Coursework- Thermodynamics, Fluid Flow, Heat Transfer, Separation Processes, Chemical Reaction Engineering, Design of Chemical Processes

Experience

2/02 - Present

Undergraduate Biomedical Researcher, "Magnetically Controlled Drug Delivery using Magnetic Dispersions Embedded in Polymer Networks", The University of Alabama, Department of Chemical Engineering

1/03 – Present

Construction Worker, Allan Cunningham Construction, Northport, Al

Publications

Carroll, K.S., **J.B. McKinney**, D.T. Johnson and C.S. Brazel, "Development of Magnetothermal Responsive Systems for Tumor Treatment," Proceed. Intern. Symp. Control. Rel. Bioact. Mater., 30 (2003), submitted.

Awards and Activities

3rd Place, Undergraduate Poster Competition – Particle Technology Division, National AICHE Conference (2002), Indianapolis, IN

John Key McKinley Creativity Award (2002)

Robinson Chemical Engineering Scholarship (2001-2002)

1st Place- BamaBot Engineering Competition (University of Alabama, 2002)

National American Institute of Chemical Engineers-Gold Member (2002-2003)

American Institute of Chemical Engineers-University of Alabama Chapter (2002)
AICHE Fundraising Chairman (2003)

Computer Skills

Microsoft Windows, Internet Explorer, Word, Excel, PowerPoint, PolyMath, ChemCad, C++, FORTRAN 90

Christopher L. Osborne

Current Address: 2501-15th Street East Tuscaloosa, Alabama 35404 (205) 553-5306 osbor002@bama.ua.edu

Permanent Address: 536 Overlook Road Fultondale, Alabama 35068 (205) 841-3149

Objective

To obtain an entry-level position in the field of Chemical Engineering.

Education

Bachelor of Science: Chemical Engineering

The University of Alabama, Tuscaloosa, Alabama

Expected Graduation: December 2002

Cumulative GPA 2.6/4.0 (based on a plus/minus system)

Design Project: Optimal design of a single chemical process

Unit Operations Lab Business Certificate

Experience

Engineering Intern, Summer 2002

American Cast Iron Pipe Company, Engineering Department, Steel Melting,

Birmingham, Alabama.

Aided Metallurgical Engineer in melting process. Properly gathered and

weighed various materials which were used in the melting process.

Engineering Intern, September 1999-December 1999

Mercedes-Benz U.S. International, Inc., Environmental Engineering

Department, Vance, Alabama.

Accounted for all chemical products entering plant. Recorded where chemicals were located in the plant and assured that all chemicals were properly labeled and coded. Inspected the entire facility for improperly stored chemicals. Performed a weekly BMP inspection of the storm water drainage system.

Laborer, Summer 1997, Summer 1998

Jefferson County, Environment Department of Wastewater Treatment

Homewood, Alabama

Assisted operator with collecting samples.

Maintenance Assistant, August 2002

University Commons Apartments, Tuscaloosa, Alabama.

Assisted Maintenance workers. Dealt with tenants.

Computer Skills MS Office, AutoCad, Windows, Fortran

Activities American Institute of Chemical Engineers, National Society of Black

Engineers, Sunday School Supervisor

References Available upon request

DHARMESH BALVANTBHAI PATEL

1707 Bienville Street Tuscaloosa, AL 35406 (205) 345-3666 Patel008@bama.ua.edu

OBJECTIVE

To obtain an entry level chemical engineering position with focus on process engineering at a chemical or pharmaceutical company.

EDUCATION

Bachelor of Science: Chemical Engineering
Minors: Mathematics and Chemistry

The University of Alabama, Tuscaloosa, Alabama Expected Graduation: May 2004

Cumulative GPA: 3.111/4.00 Professional GPA: 3.136/4.00

EXPERIENCE

Engineering Cooperative Education, Research Engineer, January 2001 – May 2001
Kimberly Clark Corporation, Absorbent Technologies, Neenah, Wisconsin
Responsible for helping fellow researchers to better understand mass flow separation of particles in storage hoppers. Responsible for conducting first round testing on newly acquired sheartesting equipment. Wrote Technical Report, and presented all findings in final oral presentation to department and management.

Laborer, May 1998 - August 1998 VIP Incorporated, Birmingham, Alabama

Worked inside chemical boilers and storage tanks cleaning the walls of buildup. Responsible for helping in the testing of wall integrity for cracks in boilers and tanks to insure proper safety requirements.

RELEVANT COURSE WORK

Summer Lab Team Member, May 2003-June 2003

The University of Alabama, Tuscaloosa, AL

Participated in five-week lab consisting of operation of Distillation Column, Evaporator, Heat Exchangers, Adsorption Column, and Particle Drop Column. Provided experience in team leadership and team unity as well as technical writing skills and time management.

COMPUTER SKILLS

Languages – FORTRAN

Applications – Microsoft Excel, Word, PowerPoint, Outlook, Publisher, Navigator, Internet Explorer, ChemCad, Matlab, AutoCAD

Operating Systems – Microsoft 98, Microsoft 2000, Microsoft Millennium, Microsoft XP Familiar with – Microsoft Access, C++, MS-DOS, MathCAD

HONORS AND ACHEIVEMENTS

American Institute of Chemical Engineers (AIChE), AIChE Peer Mentor, National Honor Society, Gamma Beta Phi, Salvation Army-Volunteer, Dean's List, University of Alabama Engineering Scholarships

REFERENCES AVAILABLE UPON REQUEST

ARCESIO PERDOMO

Current Address: 410 Grace Street Apt. 327- Bldg. 6 Tuscaloosa, Alabama 35401 (205) 758-8426 arce_perdomo@hotmail.com Permanent Address: 318 Old Farm Road Montgomery, Alabama, 36111 (334) 832-9603

OBJECTIVE

To obtain a position which allow me to grow personally and professionally.

EDUCATION

Bachelor of Science: Chemical Engineer University of Alabama, Tuscaloosa, AL

Minor: Business

Expected Graduation: December 2002

Cumulative GPA: 3.39/4.00

Los Andes University, Bogota, Colombia Chemical Engineering course work

STRENGTHS

Strong analytical, communication and technical skills

Languages: Spanish, English

COMPUTER SKILLS MS Office, Windows, Microsoft Internet Explorer

EXPERIENCE

Alabama International Trade Center, June-July 2001

Contacted companies for business purposes in Central America

Quality Control - volunteer, May-June 2000

F&E Sportswear, Montgomery, AL Supervised quality of screen prints.

Approved merchandise to be delivered to customers

Assisted accountant in the organization of checks, receipts and invoices

Interacted with sales, peers, and customers

Assistant Manger (part time), June 1995-1996

(Cellular Phone Dealer) Salon de las Comunicaciones, Bogota Assisted manager with sales, marketing decisions, and operations Assisted customers with merchandize selections and purchases

ACTIVITIES

AICHE(American Institute of Chemical Engineers)

Alabama Management Association, (elected Vice-president for spring2002)

Model United Nations

Golden Key International Honour Society

OLA (Spanish Club)
The National Dean's List
ExxonMobil Scholarship

REFERENCES

Available upon request

Home: (205) 391-9785 alpope@hotmail.com

SUMMARY

Chemical engineering senior with five co-op rotations covering batch, continuous, and product-finishing production areas. Effective communicator who operates with sense of urgency to solve complex and challenging business issues. Demonstrated engineering and interpersonal skills to lead product and process development for the automotive, consumer, and electronic product industries.

EXPERIENCE

GENERAL ELECTRIC PLASTICS, Mt. Vernon, IN

<u> 1999 - 2002</u>

Crystalline® Resin - Sole Engineering Resource

1/02 - 6/02

- Coordinated and led 2002 Resin Plant turnaround with no injuries, on schedule, and under budget
- Institutionalized "Turnaround Handbook" for future turnarounds and translated across all businesses on site
- Facilitated UPS Battery Backup System upgrade to ensure plant DCS/PLC reliability
- ♦ Identified resin grade change reduction opportunities using DMAIC process

LEXAN® Resin - Owner for Solvent Recovery, solvent distillation process

5/01 - 8/01

- ♦ Delivered \$135M annual steam savings by leading team in advanced flow control scheme using Six Sigma process
- ♦ Modified all plate and frame heat exchangers in coordination with behavior based safety team to improve safety aspects of maintenance
- ♦ Supported Nexus System implementation into Solvent Recovery Area for proactive process troubleshooting

LEXAN® Finishing - Owner of five special effects polycarbonate extrusion lines 8/00 – 1/01

- ♦ Increased annual productivity by \$70M through implementation of start-up recycle program
- Improved Apple color capability by 3 σ with the introduction of a new colorant addition system
- Utilized 40M lbs. Apple Blue recycle material with post-blending technology

ULTEM® Technology - Process / Production Engineer

1/00 - 5/00

- Delivered \$160M annual savings through reduction of reboiler outages
- ♦ Installed pneumatic sample valve to eliminate safety risks associated with normal operation
- ♦ Developed action plan to ensure EPA compliance with bulk salt storage tank in ULTEM® Monomer

Environmental, Health, and Safety - Environmental Engineer

5/99 - 8/99

- Documented and validated site surge control vessel CFR compliance
- ♦ Verified LDAR compliance in BPA area

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EDUCATION

Bachelor of Science: Chemical Engineering

Minor: Business

GPA: 3.3 / 4.0

The University of Alabama, Tuscaloosa, Alabama Expected Graduation: December 2003

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LEADERSHIP

2002 Crystalline Resin Plant Turnaround Planner/Scheduler

- Created SURETRAK schedule and checklists for proper timing and accurate tracking of turnaround items
- Completed shift operations and day personnel schedules to optimize daily workforce and manpower
- ♦ Effectively utilized and managed 25 additional employees to reduce scheduled overtime

2000 GE Plastics Earth Day Chairperson

- ♦ Managed entire project with \$17M budget and led 23 committee members
- ♦ Judged 2700 contest entries and organized luncheon for 25 contest winners

2001 / 2002 Presentation Committee Chairperson

Coordinated mini and formal presentation schedules for 19 co-ops across 16 operations

AWARDS

2000 GE Coop of the Year
Daimler Benz Award of Excellence
2003 ADEM Environmental Scholarship
2003 Chemical Engineering Scholarship
UA ChE Letter of Environmental Recognition

TRAINING

Six Sigma Green Belt Training
Project Management Training
Situational Leadership Training
Firewatch and Confined Space Training

INTERESTS

Reading, camping, auto racing, and cars Member AIChE / ACS / SWE

REFERENCES

Available upon request

Sabrina L. Rawlings

4877 Ilchester Road, Ellicott City MD 21043 Home: (410) 747-0507 sabrina1@umbc.edu

OBJECTIVE

To secure an internship/flexible part-time job in chemical, biochemical, or biomedical engineering or in a related field that will enable me to gain experience while applying my interests and knowledge.

EDUCATION

University of Maryland Baltimore County, Baltimore, Maryland
Bachelor of Science in Chemical Engineering (Biochemical Emphasis), Expected Spring 2005
Minor in Mathematics, Considering pursuit of Masters Degree (through MS-BS program)
Grade Point Average: 3.26/4.0 Current Standing: Junior with 101.0 credits

Related Course Work

Principles of Chemistry I & II, Chemistry II Lab, Organic Chemistry I &II, Concepts of Biology, Genetics, Cell Biology, Multivariable Calculus, Linear Algebra, Differential Equations, Physics – Mechanical and Electromagnetic Equivalents, Probability and Statistics, Chemical Engineering and Analysis, Ethical Issues in Science and Engineering, Technical Writing/Communications

Current Courses

Thermodynamics, Fluid Mechanics, Biochemistry, Computer Science, Elective

Project Work

- Introduction to Engineering, Fall 2001. Worked as a team of 5 to research, design, construct, and test a trebuchet. Performed cost and performance analysis.
- Ethical Issues in Science and Engineering, Fall 2002. Worked as a group of 3 to research and design a presentation on embryonic stem cell research. Highlighted the technical practices, stakeholders, and ethical concerns surrounding the issue. Analyzed facts using ethical theories and principles.
- Technical Writing, Spring 2003. Research paper and presentation on career-related topic.

Software

Windows, Microsoft Office Applications, Basic use of C programming language, UNIX/LINUX, MatLab, AutoCAD

WORK EXPERIENCE

Superfresh, Ellicott City, MD, 1999 – present

- All positions demanded a high degree of dependability and motivation, also a cooperative and personable attitude
- Clerk, April 1999 2002
 - o Worked part-time in the salad bar and floral department, Responsible for orders and inventory during absence of manager
- Floral Department Manager, April 2002 November 2003
 - Responsible for department orders, inventory, and evaluating cost/profit margins, Customer service and specialty orders were a major component, Relinquished position due to full time student status
- Cashier, December 2002 present
 - o Responsible for managing register, efficiently serving customers with a smile, received perfect score on secret shopper survey (customer service evaluation)
- Experience with store-wide price changes (through tags and electronic system)

Farm Experience - Handling and raising large and small animals

ACTIVITIES AND AWARDS

- President, Panhellenic Association
 - o Also Scholarship and Assistant Recruitment Chair
 - Organized campus-wide philanthropy and social events, fundraisers
- Vice President, Phi Mu Fraternity for Women, 2002 2003
 - o Very involved member
 - o Sponsor events to raise money for Children's Miracle Network

- Welcome Week/ Orientation Leader for new students
- Participant, LeaderShape Program
- Member, Society of Women Engineers
- Member, Women in Science and Engineering
- Recipient, Maryland Hope Scholarship
- Recipient, UMBC President Fellows Scholarship

REFERENCES

Available upon request

CATHLEEN MARIE RICHARDS

2300 5th Avenue East Apt 64 Tuscaloosa, AL 35401 (205) 248-0586 catierichards@hotmail.com

HIGHER EDUCATION

August 2000 to University of Alabama, Tuscaloosa, AL

December 2003 Bachelor of Science: Chemical Engineering, Minor: General Business

Major GPA 3.68/4.00; Overall GPA 3.40/4.00

WORK EXPERIENCE

July 2003 to University of Alabama, Tuscaloosa, AL

Present Working on advanced chemistry research project involving membranes for arsenic

adsorption from aqueous solutions through use of reaction kinetics, ultra-violet spectroscopy, atomic absorption, and inductively-coupled plasma spectroscopy for

metal analysis.

May to Summer Unit Operations Laboratory, University of Alabama

June 2003 Led and worked on team where proposals, final reports, and presentations were

generated from five different experiments including an evaporator, distillation

column, heat exchanger, adsorption column, and a fluids slot.

June to Intracorp, CIGNA Healthcare, Chattanooga, TN

August 2001 Worked on Support Services team to obtain account information, organize account

filing systems, fill supply requests, create and update spreadsheets, and assist with

correspondence in case management patients.

February to Dr. Aiken's Dental Office, Chattanooga, TN

August 2000 Served as secretary and receptionist for dental office.

COMPUTER SKILLS

MS Office, Maple, Matlab 6.1, The Crane Companion (Design), Polymath 5.1, ChemCad 5.2.x

HONORS & VOLUNTEER ACTIVITIES

The Gamma Beta Phi Society

Student Government Association, Alabama/Auburn Better Relations Committee - Fall 2000-Spring 2001

American Institute of Chemical Engineers, Engineering-Day - Fall 2000-present

Society of Women Engineers, Around the World Dinner - Fall 2000-present

Dean's List - 4 semesters

Volunteer with Adopt-A-Mile program - Fall 2001

Clarence Scott Endowed Chemical Engineering Scholarship - Fall 2001-present

Volunteer at Community Kitchen - Fall 2000-Fall 2001

National American Institute of Chemical Engineers, Gold member - Fall 2002-present

Residence Hall Association, 14th Floor Representative - Fall 2000-Spring 2001

ADRIA N. ROBERTS

66270 Highway 17 North Detroit, Alabama 35552 (205) 273-4486 rober050@bama.ua.edu

PROFESSIONAL SUMMARY:

Experienced in process engineering, quality assurance, environmental engineering and research and development. Successfully designed, simulated, performed cost analysis, and done equipment sizing for an acrylic acid plant. Works well with others in a team, goal orientated, and motivated.

TECHNICAL SUMMARY:

Experienced with many different computer applications. Fluently operate Windows 95/98/XP and navigate the Internet. Highly proficient in Microsoft Word, Excel, PowerPoint, and Lotus. Trained to operate mathematical software such as Polymath and MatLab. Skilled in operating AutoCAD, ChemCad, Simulink, Fluent5, Crane Companion, and Gambit.

EDUCATION:

Bachelor of Science: Chemical Engineering Business Minor, December 2002 University of Alabama Tuscaloosa, Alabama

Associates Degree: Chemistry, May 1999 Bevill State Community College

Fayette, Alabama

EXPERIENCE:

Chemical Engineer Intern, May 2003- August 2003 Southern Ionics Incorporated, David Nichols, PhD

- Arranged and reviewed information to obtain bagging equipment for a new process.
- Organized and prepared tables and graphs for future equipment prices.
- Designed a pump for use in an existing plant.
- Performed material balances for all utilities in a new plant.
- Evaluated preventative maintenance software for the new plant.

Laboratory Research Assistant, July 2002-December 2002 University of Alabama, Professor Christopher Brazel, PhD

- Prepared drug loaded hydro gel systems.
- Analyzed samples using ultraviolet/visible spectroscopy and flow-through quartz cells.
- Directed the surface-preferential cross-linking of the drug loaded hydro gel systems.
- Examined the burst effect of the drug loaded hydro gel systems.

Engineering Co-op, Alternating Semesters, 2000-2001 Mississippi Chemical Corporation, Yazoo City, Mississippi

- Actively participated with Research and Development on establishing new industrial uses for ammonium nitrate.
- Evaluated and prepared management of change documents on various pieces of equipment located in the plant.
- Reviewed and evaluated piping and instrumentation diagrams for a new facility.
- Prepared the cost budget for the Carlsbad, New Mexico plant.

PUBLICATIONS:

Brazel, C.S., A.N. Roberts, and X.Huang, "Surface-Preferential Cross linking in Hydro gels to Minimize the Burst Effect and Design Tunable Lag Times for Drug Delivery," IEEE Trans. Biomed. Eng., October 2002.

ACTIVITIES:

American Institute of Chemical Engineers Society of Women Engineers

CERTIFICATIONS:

Engineer-In-Training

VOLUNTEER WORK:

Volunteered in the activities department of a local nursing home.

REFERENCES:

Available upon request

Christopher Eric Roberts 15451 Sandstone Rd. Northport, Al 35475 (205) 330-8316 792-1012

Email: rbrtsche@yahoo.com

Overall GPA: 2.789

Career Objective

My career objective is either to work as a process engineer in a Chemical Manufacturing company or to work as an engineer in training and to become professionally registered within four years.

Education

University of Alabama, Tuscaloosa B.S. Chemical Engineering, December 2001

Bevill State Community College Associates degree in Engineering, 1994

Sulligent High School Voted most popular, All WAC in football and baseball Active drama club member, 1992

Work Experience

Environmental Testing & Engineering Northport, AL (March 2002-Present)

Design wastewater treatment systems and monitor discharge for manufacturing and mining companies. Clients include aircraft maintenance companies, metal fabrication companies, and coalbed methane companies. Help create SPCC plans. Complete permits that meet EPA and ADEM regulations. Assist in site development projects.

<u>Bellsouth Telecommunications (April 97-July99)</u> Performed duties in conjunction with telecommunications service

Associations

Member of the American Institute of Chemical Engineers

Computer Skills

Proficient with MS office, ChemCAD, AutoCAD, MatLAB, MathCAD

Katherine R. Rounds

5375 East Woodland Drive Post Falls, Idaho 83854 Home: (208) 773-8758 Cell: (208) 691-7784

Email: roundk@rpi.edu

Objective

An engineering internship to gain experience in the areas of research, design, development, verification and implementation.

Education

Rensselaer Polytechnic Institute (RPI), Troy, New York.

- B.S. in Chemical Engineering with a minor in Chemistry
- Graduation year Spring 2005
- Naval ROTC Scholarship Four years full scholarship

Experience

Intern - Engineer

The Boeing Company, Renton, Washington. Summer 2003.

Structural Bonding group of Boeing Materials Technology in the Commercial Airplane group.

- Gained knowledge related to organic and inorganic chemical processing materials, equipment, and systems for the manufacture of aerospace hardware.
- Gained knowledge of engineering principles for the application of chemical control technologies and systems.
- Gained knowledge of company policies and procedures and local, state, and federal regulations related to environment and safety requirements.
- Applied knowledge of manufacturing processes and materials capabilities to establish research and development strategies.
- Created materials standards and process specifications, facilitated their subsequent deployment, and provided support to the user community.
- Assessed the causes of failed chemical materials or processes and provided remedies.

Production Assistant

RSVP: Education for Working Professionals, Troy, New York. Fall 2003.

- Responsible for making classes available to distance students.
- Produced classes onto videocassettes, video stream for the web and CDs.
- Became technically proficient in video/computer based programs.

Memberships

American Institute of Chemical Engineers	2003-present
Society of Women Engineers	2003-present
Pi Beta Phi Sorority	2002-present

Accomplishments

Dean's List	2003-present
Social Chair for Pi Beta Phi	Spring 2003
Leading Petty Officer for Navy ROTC	Fall 2002
Women Mentoring Program	2001-present
Religious Education Teacher	2001-2002
Member of RPI Volleyball Club	Fall 2001

References

Kay Y. Blohowiak	Pete VanVoast	John M. Montgomery
Phantom Works	Boeing Materials Tech.	Tech. Service Rep.
The Boeing Company	The Boeing Company	Cytec Eng. Materials Inc.
P.O. Box 3707	P.O. Box 3707	12011 Bel-Red Road
Renton, WA 98055	Renton, WA 98055	Bellevue, WA 98005
(425) 237-4657	(425) 237-3178	(425) 274-0485 Ext. 205
kay.y.blohowiak@boeing.com	peter.j.vanvoast@boeing.com	john.montgomery@cytec.com

NICHOLAS C. SEAMON

Current Address: 274 Lake Landing Shelby, Alabama 35143 (205) 669-6740 seamo001@bama.ua.edu Permanent Address: 206 Greencrest Lane Prattville, Alabama 36067 (334) 365-6155

OBJECTIVE

To obtain a job in the manufacturing industry using my knowledge of chemical engineering.

EDUCATION

Bachelor of Science: Chemical Engineering The University of Alabama, Tuscaloosa, Alabama Graduated: August 2003 Cumulative GPA 3.75/4.0 ChE GPA 3.94/4.0

Summer Lab 2002

Passed Foundations of Engineering Exam April 2003

EXPERIENCE

Student Minister, June 2003-present

Bay Springs Baptist Church, Shelby, Alabama Responsible for leading student group of 15+ in Bible Study, trips, and any other activities involving the student

ministry.

Paint Sales Associate, March 2003 – August 2003

The Home Depot, Tuscaloosa, Alabama

Facilitated the customers in selecting the correct painting materials for

their home improvement needs.

Customer Service Representative, Summer 2000 Alabama Power Company, Montgomery, Alabama

Answered customers' questions concerning electric service,

including bill payments, outages, downed lines, etc.

COMPUTER SKILLS

Windows, ChemCAD, Polymath, Matlab, Maple, Unix

HONORS/ **ACTIVITIES** Tau Beta Pi, Outstanding Junior Achievement Award & Vice President

J. G. G. Frost Scholar

Mortar Board Omega Chi Epsilon

Dean's List

REFERENCES

Available upon request

Heather J. Simko

■ 3301 W. Streetsboro Rd. ■ Richfield OH 44286 ■

■ Cell Phone: 330-338-3304 ■ Home Phone: 330-659-3297 ■ E-Mail: <u>Snoopy1979@aol.com</u>■

Objective: Seeking a position as a Chemical Engineer with emphasis in research and development, product development or project management.

Education

The University of Akron Akron, Ohio 44304

Bachelor of Science in Chemical Engineering Graduation Date: May 2002

Research: Nano-Fiber technology with inorganic polymers and multiple nozzles

Certificates and Certifications

Certificate of Certification in Polymers Registered Ohio State Engineer Passed the Fundamentals of Engineering Exam

Work History

6/1- Present New Accounts Representative / Advisor MBNA America, Akron, Ohio

- Responsible for gaining new customers and retaining old ones by answering questions
 they may have about the product and services. Explaining the services that can most
 benefit the customer based on their lifestyle and needs.
- Informing new applicants in the details of the job. Go through an informal interview with new applicants to help decide if they can move on in the interviewing process. Inform human resources how the new applicant will fit in with the work and team environment.
- Training the new employees during their education process. Being involved with the
 new employee for five weeks pointing out their strong and weak points, give suggestions
 on how to improve and chart their progress. Help them reach a their goals consistently,
 and be competitive against the rest of the floor.

8/00 –9/01 Chemical Engineering Co-op, Erico Inc, Solon, Ohio.

- Managed secondary projects from concept to completion. Included development of Fluidity Matrix analysis for \$40 million dollar exothermic product lines. Developed testing procedures, parameters and correlation's to establish chemistry and temperature of molten metal products.
- Did primary research on conversion of zinc phosphate plating facility to electro-tinning process.
- Assisted in parameter development for state of the art E-Coat process.
- Assisted in waste stream profiling for E-Coat process, zinc phosphate plating line, and plant effluents.
- Assisted Senior Development Engineers with material selection and vendor procurement for Corporate sponsored Primary Projects.
- Prepared documentation, technical reports and oral presentations on elements of projects to Engineering group, and Corporate Management teams.

6/00 - 8/00 Student Assistant, The University of Akron, Akron, Ohio

- Worked in the Chemical Engineering department for a professor doing research on filter media with the focus being nano-fiber filtration.
- Responsible for all equipment and training related to finding the charge around / on the fibers, termed zeta-potential, for the research group.
- Responsible for developing the zeta-potential tests used on all fiber material samples.
 Then summarizing the results, determining possible data trends and determine base correlations to be used in graduate student research projects.
- Perform literature searches on zeta-potential and coalescence of liquid droplets on fiber materials to be used by the research group.

1/00 - 6/00 Chemical Engineering Co-op, Ohio Brass, Wadsworth, Ohio

- Responsible for daily electrical test on early production samples and determine base characteristics of the process batch. As well as entering batch data into production spreadsheets.
- Following new formulations from raw materials to finished product stages. Do required
 test at each production stage to determine if the batch is meeting current production
 standards, then doing durability and aging tests.
- Fill in for members of the quality department by running daily tests to keep up with production samples.
- Fill in for the kiln manager. Responsibilities include keeping the kiln temperature within specifications and making any needed adjustments for the batch sizes running thru the kiln. Pulling batch samples to be tested. Checking and determine grind heights on the batch pieces from early sample data.

10/97 – 12/99 New Accounts Representative / Mentor, MBNA America, Akron, Ohio

- Responsible for gaining new customers and retaining old ones by answering questions they may have about the product and services. Explaining the services that can most benefit the customer based on their lifestyle and needs.
- Informing new applicants in the details of the job. Detailing what is expected by the company of it employees and answering any questions the applicant may have concerning the job and company.
- Training the new employees during their education process. Being involved with the new
 employee for two weeks pointing out their strong and weak points, give suggestions on
 how to improve and chart their progress. Help them reach goals consistently, and be
 competitive against the rest of the floor.

Additional Information

Computer Skills: Microsoft Office including Excel and Word. AutoCAD, ChemCAD

Experienced with an ICP, and a gas chromatography

Experienced with the workings of a distillation column

Experienced with thermite reactions and flammable solids

Familiar with heavy metal EPA regulations

Interests and Activities

Member of the Society of Women in Engineering (Sept. 1997-current)

On the planning committee the SWE 2001 Regional Conference (Sept. 2001 – Oct. 2001)

Member of National Association Female Executives (June 2000 – current)

Member of the Ohio Society of Professional Engineers (June 2002 - current)

Other Interests: Dancing, Arts/Crafts, Hiking, Fencing.

Live action role-play a form of acting.

Stephanie Lin Smith

smiths7@rpi.edu

340 Walnut Glen Road Lincoln University, PA 19352 (610) 255-0528

E-Complex – Waite, 031 1999 Burdett Avenue Troy, NY 12180-3711 (518) 276-7975 (Present-May 2004)

Objective:

Summer Internship to improve my skills in the field

of engineering, and lead to a professional career in chemical engineering.

Education:

Rensselaer Polytechnic Institute, Troy, NY

Bachelor of Science: Chemical Engineering,

Emily Roebeling Scholarship

o Rensselaer Alumni Scholarship

Ursuline Academy, Wilmington, DE

1998-2002

May 2006

Salesianum Drafting Competition

Science Fair - Delaware Technical Community College

Awarded Second Place

Relevant Experience:

Exploring Engineering Day at Dupont

2002

CAD (Computer Analysis and Design)

 CAD final project 2002: build and assemble a mechanical pencil sharpener using Solid Works

Engineering Processes Chemistry of Materials

o Processes final project: Build a model cannon

Activities:

Society of Women Engineers

2003-Present

Volunteer Position:

Classroom Assistant for Students with Disabilities

1998-2000

Athletics & Clubs

1998-2002

Varsity Field Hockey, Varsity Track & Field (Captain)

S.A.D.D (Students Against Drunk Driving)

Work Experience:

Hartefeld National, Landenberg, PA

2002-2003

Line Chef, Expedite, and Hostess

o Received "Employee of the Month" Award

West Grove Diner, West Grove, PA

1999-2002

Server

Interests:

Building and Design, Running, Field Hockey

Rachel A. Sollie

Solli003@bama.ua.edu Phone: (256) 345-8163

Current Address:

2604 6th Ct.

Tuscaloosa, AL 35401

Permanent Address:

1604 Riverbend Pl. SE

Decatur, AL 35601

Education:

The University of Alabama, Tuscaloosa, Alabama

Bachelor of Science: Chemical Engineering

Expected Graduation: May 2008

Decatur High School, Decatur, Alabama Advanced Academic Diploma, with Honor

G.P.A.: 4.3/4.0

Activities/Community

Service:

University of Alabama Honors Program

President of National Honor Society- 2 years

Newspaper Editor- 2 years Treasurer of SADD club Chemistry Club Vice President Varsity Soccer Team Captain Soccer Camp Volunteer Holiday Hope Chest Chairman

Academic Tutor FBLA member

Member of Sub-Deb, a community service club

Decatur High School Office Assistant

Spanish Club

Honors/

Achievements:

University of Alabama Presidential Scholarship recipient

Department of Engineering Scholarships

Academic Awards Winner- 4 years

National Honor Society

Who's Who among American High School Students

Top 5 in class

Several Area and State-level soccer awards

Chosen to attend the National Youth Leadership Forum on Medicine-San

Francisco, CA

Work

Experience:

Lifeguard-Burningtree Country Club-Summer 2003

Lifeguard-Pointe Mallard Clubhouse- Summer 2003

Computer Skills:

Microsoft Word/Works

Microsoft Excel

Microsoft PowerPoint

Annie Rebecca Spears

Permanent Address:

207 North Wilson Street Geneva, AL 36340 Home Phone (334) 684-6090 Email eddies@alaweb.com

Local Address:

806 16th Ave Tuscaloosa, AL 35401 Phone (205) 657-0835 Email spear005@bama.ua.edu

Objective

To obtain an internship in the chemical engineering industry.

Education

Bachelor of Science: Chemical Engineering The University of Alabama, Tuscaloosa, Alabama

Expected Graduation: May 2005

Cumulative GPA 3.2/4.0 CHE GPA 3.2/4.0

High School Diploma: Advanced Diploma

Geneva High School, Geneva, Alabama

Graduated: June 2000

Cumulative GPA: 4.63/4.0(weighted) 3.9/4.0(unweighted)

ACT: 26

Experience

Waitress, Summer 2001

Hen Feather's Café and Catering, Geneva, Alabama

Waited on customers. Assisted with preparation of food. Accounted for money.

Assisted with opening and closing of store.

Computers

Matlab, MS Office, Windows, Maple

College Activities

AICHE (American Institute of Chemical Engineers) ~ Freshman Representative

Alpha Gamma Delta Sorority ~ Pledge Class Treasurer, Sisterhood Committee

Public Relations Chairman

Bama Belle Dean's List

Gamma Beta Phi Society

SWE (Society of Women Engineers) ~ Outstanding Member of the Month in

September 2000, Publicity Committee, Fundraising Chairperson

SAA (Student Alumni Association)

SGA (Student Government Association) Homecoming Committee ~ Donations TIDE Freshman Program (Teamwork, Integration, and Design In Engineering)

Alumni Leadership Scholarship recipient

A.P. & Ray Maness Endowed Engineering Scholarship recipient

Capstone Summer Honors Program Scholarship recipient

Clarence Scott Endowed Chemical Engineering Scholarship recipient

High School Activities University of Alabama's Capstone Summer Honors Program (CSHP)

University of Alabama's Student Introduction To Engineering (SITE)

University of Alabama's Engineering Leadership Day

Geneva County's Junior Miss

Girls State Representative ~ Assistant Secretary of State

Wendy's High School Heisman State Finalist

Coca-Cola Scholarship Semi-finalists

President's Student Service Award

Delta Kappa Gamma Outstanding High School Senior Geneva High School Who's Who ~ Most Intellectual

Student Council Association Representative National Beta Club ~ President, Member

Drug Abuse Resistance Education (DARE) Role Model

CHRISTY SPEAS

INFORMATION

Email: c_speas@hotmail.com

School Address

2501 Veteran's Memorial Pkwy. Apartment #1014 Tuscaloosa, AL 35404

(205) 556-3565

Home Address 108 Worley Way Perry, FL 32347 (850) 584-5435

EXPERIENCE

July 2000 - December 2002

ChE Dept, University of Alabama

Tuscaloosa, AL

Undergraduate Research Assistant

Created "virtual lab" modules for the Process Dynamics and Controls Course using Matlab/Simulink and Windows NT

January 2002 - August 2002

Kimberly-Clark Corporation

Roswell, GA

Co-operative Education Student - Materials Developer - Nonwovens Technology

 Developed and characterized thermoplastic elastomeric films and assisted with process and material developments of nonwoven diaper components

May 2001 - August 2001

Kimberly-Clark Corporation

Neenah, Wi

Co-operative Education Student - Product Developer - Infant Care Product Development

 Conducted research involving product design and component material changes, evaluated through physical measurements and studies with consumers for improvements to HUGGIES diapers

August 2000 – December 2000

Kimberly-Clark Corporation

Neenah, WI

Co-operative Education Student - Product Developer - Family Care Product Development

 Conducted research to identify test methods and conducted testing and analysis to characterize novel tissue structure

EDUCATION

1999-Present

University of Alabama

Tuscaloosa, AL

Pursuing Bachelor of Science in Chemical Engineering

Pursuing Minor in Computer Research

Expected Date of Graduation – December 2003

Major GPA: 3.46/4.00

OA GPA: 3.289/4.00

HONORS

Buddy Carter Crimson Scholarship

Computer Based Honors Program Scholarship

Robert C. Byrd Scholarship Clarence W. Scott Scholarship

JGG Frost/ Vulcan Materials Co. Chemical Engineering Scholarship

America's Junior Miss Scholarship

ACTIVITIES

American Institute of Chemical Engineers – local and national

-Director of Social Affairs - local

-E-Day Committee Chairperson

Computer Based Honors Program Kappa Alpha Theta Fraternity

-Panhellenic Judicial Board

-Delta Omicron Recruitment Alumnae Chairwoman

-Delta Omicron Development Committee

Alpha Lambda Delta - freshman honor society

Phi Eta Sigma – freshman honor society National Society of Collegiate Scholars

Welcome Ministry Team Leader

FIRST Lego League Mentor (For Inspiration and Recognition of Science and Technology)

Miracle Riders Volunteer

SKILLS

Matlab, C, VBA, Fortran, HTML, Internet Explorer, Unix, Windows 95-XP, Microsoft Excel,

Microsoft PowerPoint, Microsoft Word, ChemCAD, FLUENT, Polymath

Jennifer Kim Stierwalt

Box 860517

Tuscaloosa, AL 35486-0005

Phone: (205)792-8338

Email: bamafemme@hotmail.com

Education:

The University of Alabama

Bachelor of Science Chemical Engineering

Cumulative GPA: 3.47/4.00

Projected Graduation Date: August 2004

Activities and Honors:

- -University of Alabama Army ROTC cadet
- -President's Cabinet Scholarship recipient
- -Clarence Scott Chemical Engineering Scholarship recipient
- -US Army Physical Fitness Award:
- Scored maximum points on the Army Physical Fitness Test
- -Charlie Company Junior Leader of the Week during Army Advanced Individual Training (AIT)
- -Member of AICHE (Fall 1999-Present)
- -University of Alabama Baseball Team Hostess (Spring 2000)

Work Experience:

Fall 2001-Present

75th Combat Support Hospital

Tuscaloosa, AL

US Army Reservist 91W Combat Medic

Participate in weekend drills at the hospital unit. Trained through US Army Basic Training and AIT for 27 weeks in combat medic skills, military conduct, war-time preparations, and other military applications. Received certification through the National Registry of Emergency Medical Technicians.

Spring 2002/Summer 2003

Twice as Nice

Tuscaloosa, AL

Retail Clerk

Worked retail at this clothing/furniture/antique consignment store— operated the cash register, priced goods, put out apparel and furniture, did bookkeeping/filing, and performed janitorial duties.

Fall 2001/Spring 2001/Summer 2000

Shaw Industries

Dalton, GA

Co-Op Student

At ShawChem, completed projects dealing with yarn/carpet plant chemicals. Main project was the formulation of a more economical replacement for the currently used acid buffer (used in the dyeing process). At Central Lab, performed various tests on submitted claim samples; among these: stain, strength, pH, chlorine, and Infrared analyses. Also revamped the chemical inventory of the lab and initiated the yarn database. At WM Extrusion, conducted strength and color testing on polypropylene and nylon yarn. Major project was aiding a Black Belt process project which entailed analyzing the color change method for the solution-dyed extrusion process.

Spring/Fall 2000

Logan's Roadhouse

Tuscaloosa, AL

Restaurant Hostess

Summer 1999

Omnova Solutions

Columbus, MS

Summer Intern

Performed stain tests on various vinyl wall covering samples and secretarial

duties.

References:

Joyce Lamb

Shaw Industries Central Lab Supervisor

Shaw Industries, Inc. Plant 3 Central Laboratory

Dalton, GA 30722

(706) 275-2222/(706) 275-2218

Richard Andrusko

Shaw Industries ShawChem Supervisor

Shaw Industries, Inc. Plant 4 ShawChem Dalton, GA 30722 (706) 275-4007

Steve Kwee

Shaw Industries ShawChem Lab Supervisor

Plant 4 ShawChem Dalton, GA 30722 (706) 275-4162

Dr. Stephen Ritchie University of Alabama CHE Professor P. O. Box 870203 Tuscaloosa, AL 35487 (205) 348-2712

MATTHEW B. TALIAFERRO

Current Address: 516 15th Avenue #2 Tuscaloosa, AL 35401 (205) 342-3355 ferro16@aol.com Permanent Address: 30 Heritage Way Oxford, AL 36203 (256) 831-7190

OBJECTIVE

To obtain an entry-level position in the petroleum refining industry with an emphasis in project engineering and a future in engineering management.

EDUCATION

Bachelor of Science: Chemical Engineering

Minor: Business Management

Environmental Engineering Certificate

The University of Alabama, Tuscaloosa, Alabama

Expected Graduation: May 2004

GPA: 3.58 /4.0

WORK EXPERIENCE

May 2003 - June 2003 - Chemical Engineering Unit Operations Laboratory - Tuscaloosa, Alabama – This course is designed to simulate a work environment. Five professors assigned one project to be completed during this course. I worked in a team environment to conduct research, performing and completing experiments, developed reports on outcome of the experiment, and conducted presentations on the results to each professor.

May 2001 - Present - Hidden Meadows Golf Course - Northport, Alabama - Customer service, maintain golf carts and equipment, operates cash register in golf shop.

May 2000 - August 2000 - FoodMax - Oxford Alabama - Cashier - Summer Job

May 1999 - August 1999 - Kloke Transfer- Anniston, Alabama - Packer - Packed up electronic equipment for shipment from Ft. McClellan, AL to Ft. Jackson, SC. Transported this equipment from one government installation to another by U-Haul truck - Summer Job

COMPUTER SKILLS

MS Office: Word, Excel, Access, Internet Explorer, Outlook; FORTRAN 90, Matlab, Polymath 5.1, ChemCad 5, HeatExchanger, AutoCAD, Dos, Numerical Analysis Windows 95/98/NT/2000/XP

HONORS

Gamma Beta Phi National Honor Society Golden Key International Honor Society Omega Chi Epsilon Chemical Engineering Honor Society Tau Beta Pi National Engineering Honor Society Dean's List

SCHOLARSHIPS

President's Cabinet Scholarship Chevron Chemical Engineering Scholarship J. Frost - Vulcan Materials Company Scholarship Clearance Scott Chemical Engineering Scholarship Blaise L. Rampone Quasi Engineering Scholarship College of Engineering Scholarship

REFERENCES available upon request

mike_bama@hotmail.com Home: (870) 935-4904

OBJECTIVE

To obtain a chemical engineering position that will allow me to enhance my technical and communication skills in a process and project engineering role.

EDUCATION

The University of Alabama, Tuscaloosa, Alabama, December 2001

Major: Chemical Engineering Overall Grade Point Average: 3.42

Continuing Education: Engineer-In-Training, Environmental Engineering Certificate

EMPLOYMENT

SAV ON Office Supplies, Jonesboro, Arkansas SALES ASSOCIATE

8/2002 - Present

Responsibilities include greeting customers and answering questions regarding inventory; placing and filling orders for delivery; assisting the manager with inventory by unloading trucks, stocking shelves, and working the cash register.

Haworth Inc., Jonesboro, Arkansas PRODUCTION ENGINEER INTERN

5/2000 - 8/2000

Worked with senior engineers in the layout and installation of new production lines and equipment; maintained a spare parts list while in contact with several part manufacturers to reduce company expenses.

Haworth Inc., Jonesboro, Arkansas PRODUCTION LINE WORKER

5/1999 - 8/1999

Assisted maintenance and production crew with assembly line operation; cleaned assembly lines during downtime; worked on the assembly line as a shift worker.

Physics TIDE Tutor Program, Tuscaloosa, Alabama STUDENT WORKER

9/1998 - 5/2000

Attended a calculus based physics class during class hours in order to observe material being taught; monitored a computer lab during tutor hours; answered questions students had about physics and other Foundation Coalition or TIDE courses.

SKILLS

COMPUTER: Proficient with Windows 95/98, Microsoft Office, AutoCAD, ChemCAD Simulation Software, MathCAD, DOS, HTML, MatLAB, Photoshop; Developed websites for personal use and enjoyment

COMMUNICATION/TEAMWORK: Worked closely with other engineers and interns to develop layouts for production lines; Worked in a team atmosphere in the Foundation Coalition curriculum at UA; tutored college level Calculus and Physics students

LEADERSHIP: Summer Camp Counselor as a Boy Scout; Dean's list (Fall 1997, Spring 1998, Spring 2000, Spring 2001, Fall 2001); Phi Eta Sigma Honor Society Member

PAUL A. WELLER

Current Address: 5100 Old Birmingham Hwy #2014 Tuscaloosa, Alabama 35404 (205) 554-7593 pwnbama@aol.com

Objective

To obtain an entry-level position in process or production engineering.

Education

Bachelor of Science: Chemical Engineering

Minor: Business

The University of Alabama, Tuscaloosa, Alabama

Expected Graduation: May 2003

Cumulative GPA 3.0/4.0 CHE GPA 3.43/4.0

Course Projects

Summer Lab, Conducted five experiments such as: heat exchange, distillation, evaporation, reaction, and fluid flow. Lead the heat exchange and fluid flow experiments. Presented results and experimental procedure for distillation experiment using MS Power

Point.

Experience

Engineering Coop, Alternating Semesters, 2000-2001

Ciba Specialty Chemicals, McIntosh, Alabama

Updated interlock checklist for processes in Area 1. Updated Process Flow Diagrams with Freelance and MS Power Point. Performed batch reactions in Area 1 Plant Support Lab using a new catalyst. Utilized Visual Basic programming to develop a reporting system for the Safety Crew to keep track of and analyze problem areas within the plant.

Updated Piping and Instrument Diagrams for Area 20. Completed batch distillation trials to simulate and improve the octane distillation process in Area 20. Performed pump calculations to replace a set of reactor

heating jacket pumps.

CHE Courses

Unit Operations Lab **CHE Calculations** Chemical Reactor Design CHE Thermodynamics Health Safety Chemical Process Fluid Flow Operations Chemical Process Design II Separations Process Process Dynamics and Controls Heat Transfer Operations Polymer Materials Engineering

Basic CHE Lab

Chemical Process Design I

Transport Phenomena

Computers

MS Office, MS Excel, MS Access, MS Power Point, ChemCAD,

Powerstation, Freelance, Visual Basic, Windows

Activities

American Institute of Chemical Engineers, member Played Intramural Sports, flag football and tennis

Athena S Westbrooks

1632 44th Street Ensley Birmingham, Alabama 35208 (205)347-8658 westb011@bama.ua.edu

Education:

Bachelor of Science: Chemical Engineering
The University of Alabama, Tuscaloosa, Alabama
Cumulative GPA: 2.0 approx.
Expected Graduation: May 2006
Bachelor of Science: Biomedical Engineering

The University of South Alabama, Mobile, Alabama No Degree Obtained **High school:** Alabama School of Fine Arts Diploma: Math/Science

AP Calculus, AP Physics, AP Biology, AP Chemistry

Experience:

Sales Associate, June 200-present
United Textiles, Bessemer, Alabama
Deal with customers, Account for money (cashier), Clean up, Put up displays, and
Restock merchandise

Summer Camp Counselor, May 2003-August 2003
Birmingham Western Area YMCA, Birmingham, Alabama
Dealt with children ages 7-8, Dealt with parents, Supervised children on field trips,
Transported children to various activities

Research Intern, June 200- May 2001
The University of Alabama at Birmingham, Department of Nephrology, Birmingham,

Alabama
Researched hypertension in Sprague Dawley, salt-resistant and salt-sensitive rats

Computer Skills

C/C++, MS Office, Word, Windows, Excel, WordPerfect

Certifications

CPR Certified (expires 05/2004), First Aid Certified (Expires 05/2004)

Activities

National Society of Black Engineers 9NSBE), member
Big Brother/ Big Sister, participant
Student Government, representative
Girls in Science, mentor
Cultural Awareness and Racial Equality (CARE), secretary

ISHANEKA WILLIAMS

3342 Pittari Place New Orleans, Louisiana 70131 504-368-0218 (New Orleans) 225-334-4932 (Baton Rouge) iwilli2@lsu.edu

OBJECTIVE

To obtain a Bachelor's Degree in Chemical Engineering from Louisiana State University, and in the process gain work experience by interning or receiving a cooperative educational opportunity.

EDUCATION

Louisiana State University (LSU) May 2005
Baton Rouge, Louisiana Major: Chemical Engineering

New Orleans Center for Science and Mathematics May 2000

Finished number five in Top Ten GPA: 3.75 **Edna Karr Magnet High School** May 2000

New Orleans, Louisiana GPA: 3.8

COMPUTER SKILLS

Microsoft Office 98 Suite, experience with ASPEN, LIMS, PIMS

EXPERIENCE

6/00-2/02 Student Assistant LAMP Coordinator, Minority Engineering Programs-LSU

Organize, collect, update, process, relate, and inform student apprentices who participate in the Louisiana Alliance for Minority Participation (LAMP) program of information related to their status, and upcoming events. Keep database of each apprentice's information.

6/01-8/01 Intern, B.A.S.F.

Participated in Plant shutdown, designed a macro that sorted, and processed imported information from lab databases

4/00-5/00 Food Expeditor, Applebee's Neighborhood Bar& Grill

Organized, performed, and managed the time constraints of fast paced food services. Ensured that the food items were presentable and met company standards of high quality and performance.

6/99-8/99 Assistant Curator Intern, Tulane's Museum of Natural History

Consolidated the fish specimens into sizable jars. Cataloged and processed the status of the collections into the computer systems. Participated in five-year specimen tracking seining research project for the recent specimen of study.

CLUBS & ACTIVITIES

Society of Women Engineer(Executive Director of Treasuries); MLK Committee member; National Society of Black Engineers; MEP Envoy; NAACP; NOBCChe; Community Service Org. 'Feed My People'; National Honor Society; Beta Club; Life Member of Community Service Org. Youthanasia;

VOLUNTEER SERVICES & PROJECTS

NSBE and MEP Tutor; Feed the Homeless at Bridge House Project; Renovating Inner City Playgrounds; 'Quilt of Tranquility' Project; Hostess of Peer Leadership Banquet; Beautify School Grounds Project; Dissection Labs at Inner City Elementary Schools

AWARDS RECEIVED

Awards: ITT Scholarship recipient; A.E.T. Scholarship; Summer Scholar 2000- LSU; Kappa Alpha Psi 4.0 scholarship; TOPS; MEP Scholar; bp Scholarship; Who's Who Among American High School Students 97-00

Programs: Xavier University BioStar and ChemStar (full scholarships); Women's League Leadership Conference (team leader); AMPHS Symposium 97; participated in research at LUMCON Research.

BLEVE B. WILLOUGHBY

2408 Stardust Drive Tuscaloosa, AL 35405 (205) 454-0709 BWillghby@hotmail.com

OBJECTIVE

To obtain an entry level process engineering position with an opportunity for advancement into engineering management.

EDUCATION

Bachelor of Science: Chemical Engineering The University of Alabama, Tuscaloosa, Alabama Expected Graduation: August 2004

Cumulative GPA: 3.5/4.0 Major GPA: 3.7/4.0

EXPERIENCE

Lab Technician, January 2003-Present TTL. Inc., Tuscaloosa, Alabama

Establish survival and reproductive rates of organisms when placed in environmental wastewater. Determine the presence/absence of coliform bacteria in raw and drinking

water samples.

Unit Operations Laboratory, Summer 2003 The University of Alabama, Tuscaloosa, Alabama

Worked in assigned teams to perform experiments using a lab-scale distillation column, heat exchanger, and evaporator. Prepared proposals, reports, and presentations for each experiment.

Engineering Co-Op, Fall 2001, Summer 2002

MeadWestvaco Containerboard, Technical Services Department, Stevenson, Alabama. Collected weekly pulp samples and tested for oversize particles using shive analyzer. Used Microsoft Excel to update and maintain monthly downtime databases for each paper machine. Participated on company wide teams designed to troubleshoot and solve operational problems. Led feasibility study of new fiber analyzer. Trained new Co-Ops to continue above responsibilities.

Farm Worker, Summers 1998-2000 Paragon Farms, Charleston, Missouri. Washed and sorted potatoes before they were loaded onto trucks.

COMPUTER SKILLS MS Excel, MS Word, MS Powerpoint, Windows 98-XP, Internet Explorer, ChemCAD,

Polymath, AutoCAD, FORTRAN

HONORS AND ACTIVITIES

American Institute of Chemical Engineers Clarence Scott Chemical Engineering Scholarship Capstone Scholars Day Scholarship

President's List

JGG-Frost - Vulcan Material Company Scholar

REFERENCES Available upon request